Service Service Service



awce Manua

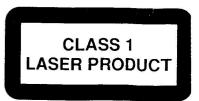


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Service Manual Tape Transport RDN-12



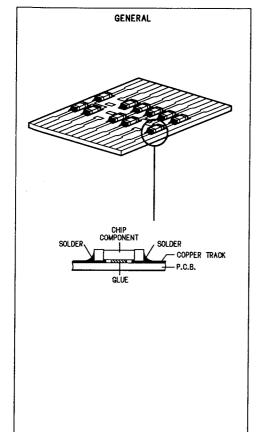
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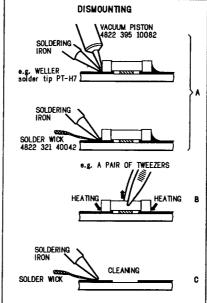
⊕ 4822 725 2490 €

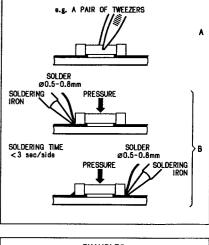




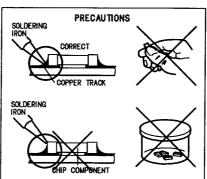
HANDLING CHIP COMPONENTS

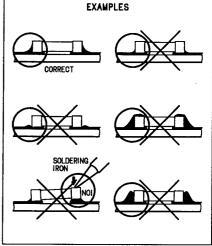






MOUNTING







All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the

SERVICE PACKAGE

same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools at this potential.

ESD

F ATTENTION
Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévite pourrait être considérablement écourtée par le fait qu'aucune précaution nést prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfileer le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Sorgen Sie dafür, daß sie im Reparaturfall über ein Puls-

armband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.

Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

1 AVVERTIMENTO
Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparationi occorre quindi essere collegato allo stesso potenziale che quello della massa delápparecchio tramite un braccialetto a resistenza Assicurarsi che i componenti e anche gli utensili con quali si

lavora siano anche a questo potenziale

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur

drastisch doen vermindern. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde

potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(NL) WAARSCHUWING

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

Le norme di sicurezza estigono che l'apparecchio venga

rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkeliijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

Bei jeder Reparatur sind die geltenden Sicherheitsvor-schriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Original ersatzteile zu verwenden.

S Varning!
Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

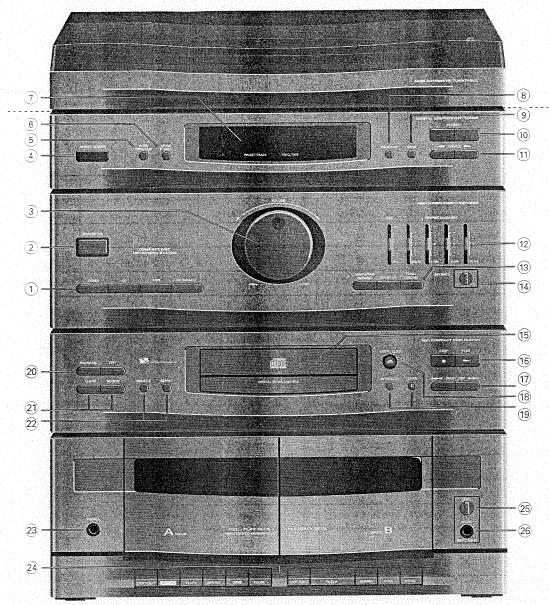
(DK) Advarsel !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

(SF) Varoitus!

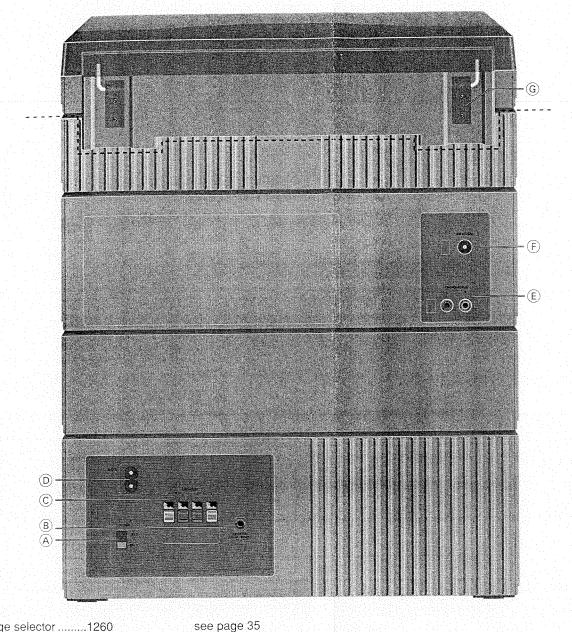
Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen !

F
"Pour votre sécurite, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne"



Source selector		see page 25, 26
Tuner	1440	
CD	1438	
Tape	1444	
Phono/Aux		
2 Stand by		see page 29, 30
3 Volume		see page 25, 26
4 Remote sensor		see page 25, 26
5 Auto Program		see page 29, 30
6 Mono/Stereo		see page 29, 30
7 Display		see page 29, 30
8 Program (Tuner)		see page 29, 30
	1434	see page 29, 30
10 Presets		see page 29, 30
Up	1425	
Down	1426	
11 Tuning		see page 29, 30
Up	1421	
Down	1422	
12 Graphic Equalizer		see page 25, 26
100Hz/DBB	3485	
300Hz	3484	
1kHz	3483	
4kHz		
10kHz		

13 High Speed Dubbing Dolby NR	.1420	see page 29, 30
Ferro/Chrome14 Balance		see page 25, 26
15 CD Tray		
16 Play (CD)	1457	see page 29, 30
Stop (CD)	1424	
17 Track skip (CD)		
	1454	see page 29, 30
	1455	see page 29, 30
18 Open/Close (CD)	1456	see page 29, 30
19 Introscan (CD)	1452	see page 29, 30
Pause (CD)	.1451	see page 29, 30
20 Program (CD)	1459	see page 29, 30
Edit (CD)	. 1445	see page 29, 30
21 Review	.1458	
Clear	1462	
22 Shuffle	1463	
Repeat	1453	
23 Headphone socket		see page 25, 26
24 Tape transport keys.	mechanical	



Α	Voltage selector	1260	see page 3
В	Phono supply	1305	see page 33, 3
С	Speaker terminal	1304	see page 33, 3
D	Mains socket	1255	se page 3
	Aux / Phono sockets		see page 25, 2
F	FM aerial socket	1101	
	for ECO 4 Tuner		see page 4
	FM aerial socket	1110	
	for Tuner 92		see page 4

Not on all versions

VOLTAGE SELECTOR MICRO MIX RECORD PLAYER

Specification

General:

Mains voltage

220V / 50Hz for /20, /22 : 240V / 50Hz for /25

Power consumption

≤ 105 W at maximum output power

: ≤ 10 W in stand by

Amplifier:

Output power

: 2 x 20W at 6Ω D=10%

Music power

: 2 x 60W at 6Ω

Headphone

: 6,3mm stereo jack 25mW at 32Ω (≡0,9V at 32Ω)

Power stage protection : Temperature

Frequency response

: 63 Hz - 14 kHz (-3dB) Limit

: 63 Hz - 17 kHz (-3dB) Typical value

Tone control

DBB 300 Hz 1 kHz

±6dB at 100 Hz ±6dB at 300 Hz ±6dB at 1 kHz ±6dB at 4 kHz

4 kHz 10 kHz

±6dB at 10kHz

Input sensitivity

PHONO/LINE

: 350 mV

Tuner:		FM	MW	LW
Tuning rang	e	87,5 - 108 MHz Grid 50 kHz	522 - 1611 kHz (Grid 9kHz) 530 - 1700 kHz (only for /37) (Grid 10kHz)	148 - 284 kHz (Grid 3kHz)
Aerial input		Coax F-Connector 75 Ω	Ferrite antenna	Ferrite antenna
IF		10,7 MHz ± 25 kHz	450 kHz ± 1 kHz	450 kHz ± 1 kHz
Sensitivity	Mono : 26dB S/N Stereo : 46dB S/N Search tuning	≤ 4 μV (2 μV typ.) ≤ 45 μV 7 μV typ.	3 mV/m (1,5 mV/m typ.) ≤ 6mV/m	≤ 6 mV/m ≤ 6mV/m
Distortion		≤3% (2% typ.) RF=1mV Δf=75kHz	≤5% (3% typ) RF=100mV/m m=80%	≤5% (3% typ) RF=100mV/m m=80%
Channel sep	paration	≥26dB (30dB typ)	-	-
Image reject	ion ratio	30 dB (40 dB typ.)	27 dB (30 dB typ.)	40 dB (43 dB typ.)
-3 dB limiting	g point	≤ 5 μV (2 μV typ.)		

CD unit:

Have to be measured direct on internal connector 1300

Frequency response

20 - 20.000 Hz ±2 dB

Output level Signal/noise ratio Distortion 2V ±3 dB ≥90 dB ≤1% at 1 kHz ≤2 dB at 1 kHz 50 dB max.

Channel difference Channel crosstalk De emphasis

0 or 15/50 μs switched automatically by subcode on the disc

Laser

Output power

: ≤500 μW : 780 nm ± 20 nm Wave length

Recorder part:

Phono part:

Tape speed

: 4,76 cm/s ±2% in Normal Speed

: 8,5 cm/s ±12% in High Speed Dubbing

Wow & Flutter Winding speed Erase / Bias system : ≤ 0,4% : ≤ 130 s for C60 cassette : AC 88 kHz ± 4 kHz

RIF-shift

Distortion at 200 nWb/m Channel difference at PB Channel difference overall Channel separation

Track separation

Operating speed Drive system

: service solution on request

: ≤ 5% : ≤ 3dB : ≤ 3dB : ≥ 18dB at 1kHz : ≥ 55dB at 1kHz

Power supply Wow & Flutter : 12V DC / 80mA : 0,25% JIS

: 0,35% DIN : 331/3 and 45 rpm

: Belt drive with automatic return

	IEC I	IEC I (dubbing)	IEC II	IEC II (dubbing)
Frequency response -8 dB ¹⁾	100Hz - 12,5kHz	100Hz - 12,5kHz	100Hz - 12,5kHz	100Hz - 12,5kHz
Signal to Hiss ratio ²⁾ A-weighted	≥ 45 dB	≥ 45 dB	≥ 45 dB	≥ 45 dB
Signal to Noise ratio ²⁾ FF-weighted	≥ 40 dB	≥ 40 dB	≥ 40 dB	≥ 40 dB
Erase attenuation 3)	≥ 55 dB	≥ 55 dB	≥ 55 dB	≥ 55 dB

¹⁾ typical value

The set reacts on following RC5 commands:

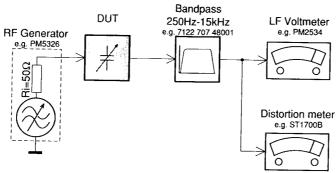
	Systemcode	Commandcode
Stand by	17,20,21	12
Tuner	17	63
Aux/Phono	21	63
CD	20	63
Volume up	16	16
Volume down	16	17
Repeat	20	29
Shuffle	20	28
Scan	20	43
Play (CD)	20	53
Pause (CD)	20	48
Next (CD)	20	32
Previous (CD)	20	33
Search Forward (CD)	20	52
Search Backward (CD)	20	50
Stop (CD)	20	54
Tuning up	17	30
Tuning down	17	31
Preset up	17	32
Preset down	17	33

²⁾ at 250 nWb/m

³⁾ Use a 1 kHz passfilter to minimize the wide band noise component.

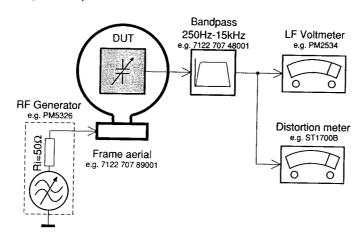
Measurement setup

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).

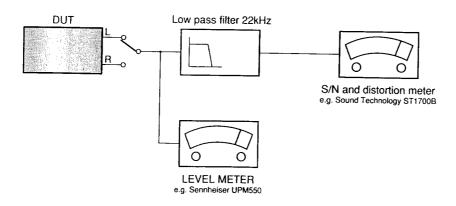
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

CD

Use Audio Signal Disc SBC429 $\,$ 4822 397 30184 (replaces test disc 3) L.P.F. = 13^{th} order filter $\,$ 4822 395 30204



DUT Device Under Test

UU L1 TU -

SERVICE HINTS

Service tools

TORX screwdriver set SBC 163	4822 395 50145
Audio signal disc SBC 429	
Test disc 5 (disc without errors)	
Test disc 5A (disc with dropout errors, black spots and finger prints)	
Test disc 5 and Test disc 5A = SBC 426/426A	4822 397 30096
Burn in test disc (65 min. 1kHz signal at -30dB level without "pause")	4822 397 30155
Universal test cassette Fe SBC 420	4822 397 30071
Universal test cassette CrO ₂ SBC 419	
13(IIVE(SALTES) CASSELLE GLUG ODG 413	- 027 00000

Dismantling of:

: see page 54

Front assy

- *Remove top cover as shown in picture 1.
- * Remove right side of the cabinet (10 screws).
- * Remove 3 bottom screws and 3 screws from left side wall on front side.
- * Remove 1 screw to CD metal support on rear.
- * Release 2 snaps (bottom-front) and turn whole front assy aside.

Tape Transports

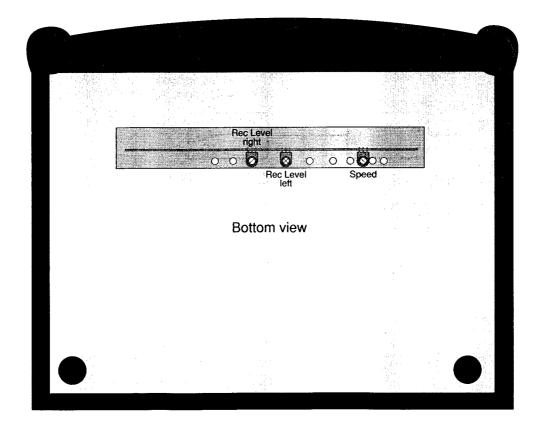
- * Separate Front assy as described above.
- *Loosen Recorder assy (6 screws).

Power Board

- *Remove top cover as shown in picture 1.
- * Remove rear part of cabinet (20 screws).
- * Loosen power board (4 screws).
- * Take power board and place it behind the set.
 Remarks: Cable to headphone socket has to be disconnected.
 Remove CD brick if necessary.

Playback,- Rec/Pb Head

- * Dismantle Cassette door as discribed in picture 3 and 4.
- * Press PLAY.
- * Replace the head.
- * Adjustment of Tape speed and Recording level can be done from the botom side (see picture below).

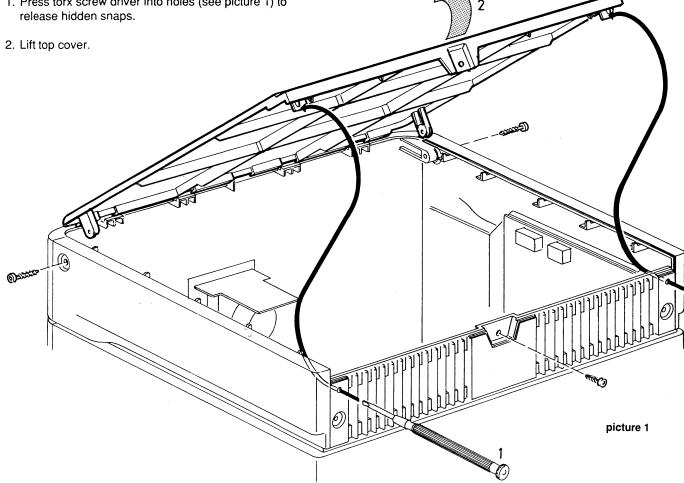


Dismantling Hints

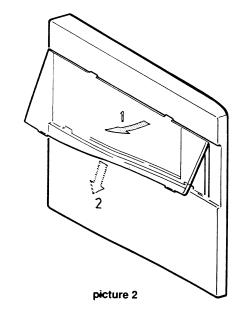
Dismantling of Top Cover

Remove 3x screws.

1. Press torx screw driver into holes (see picture 1) to

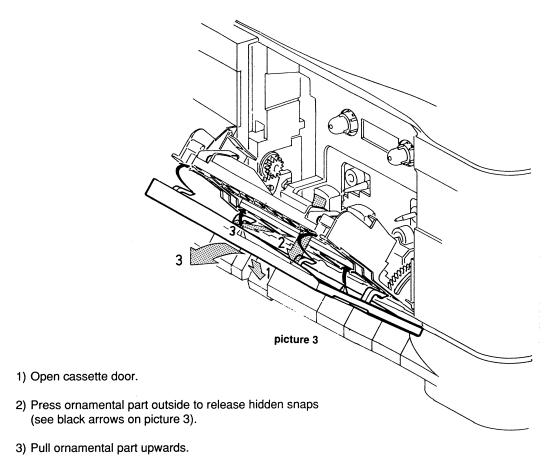


Dismantling Window of Cassette Door

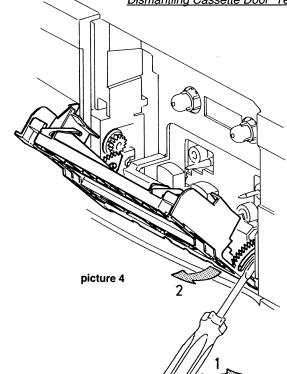


1) Press the window outside as shown in picture 2. You don't need any tool.

Dismantling Cassette Door Ornamental Part



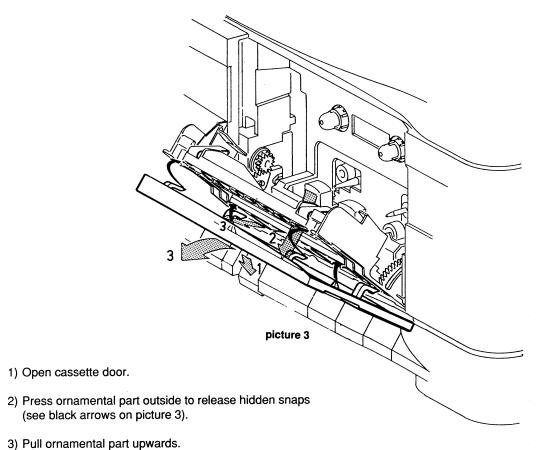




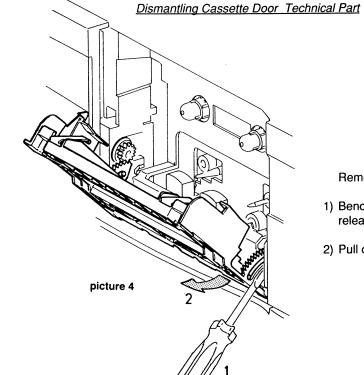
Remove ornamental part first.

- 1) Bend tooth segment with a screw driver to release snap as shown in picture 4.
- 2) Pull cassette door outside.

Dismantling Cassette Door Ornamental Part



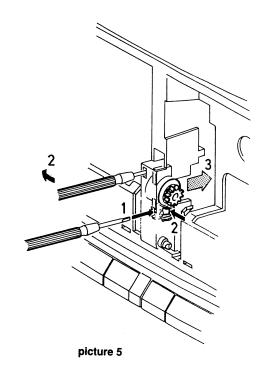




Remove ornamental part first.

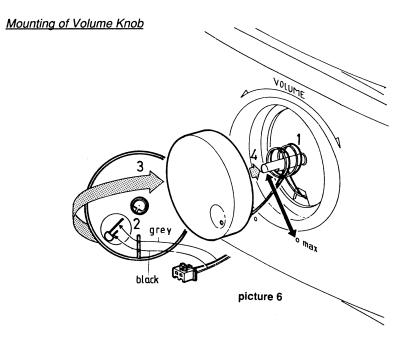
- 1) Bend tooth segment with a screw driver to release snap as shown in picture 4.
- 2) Pull cassette door outside.

Dismantling of Damper



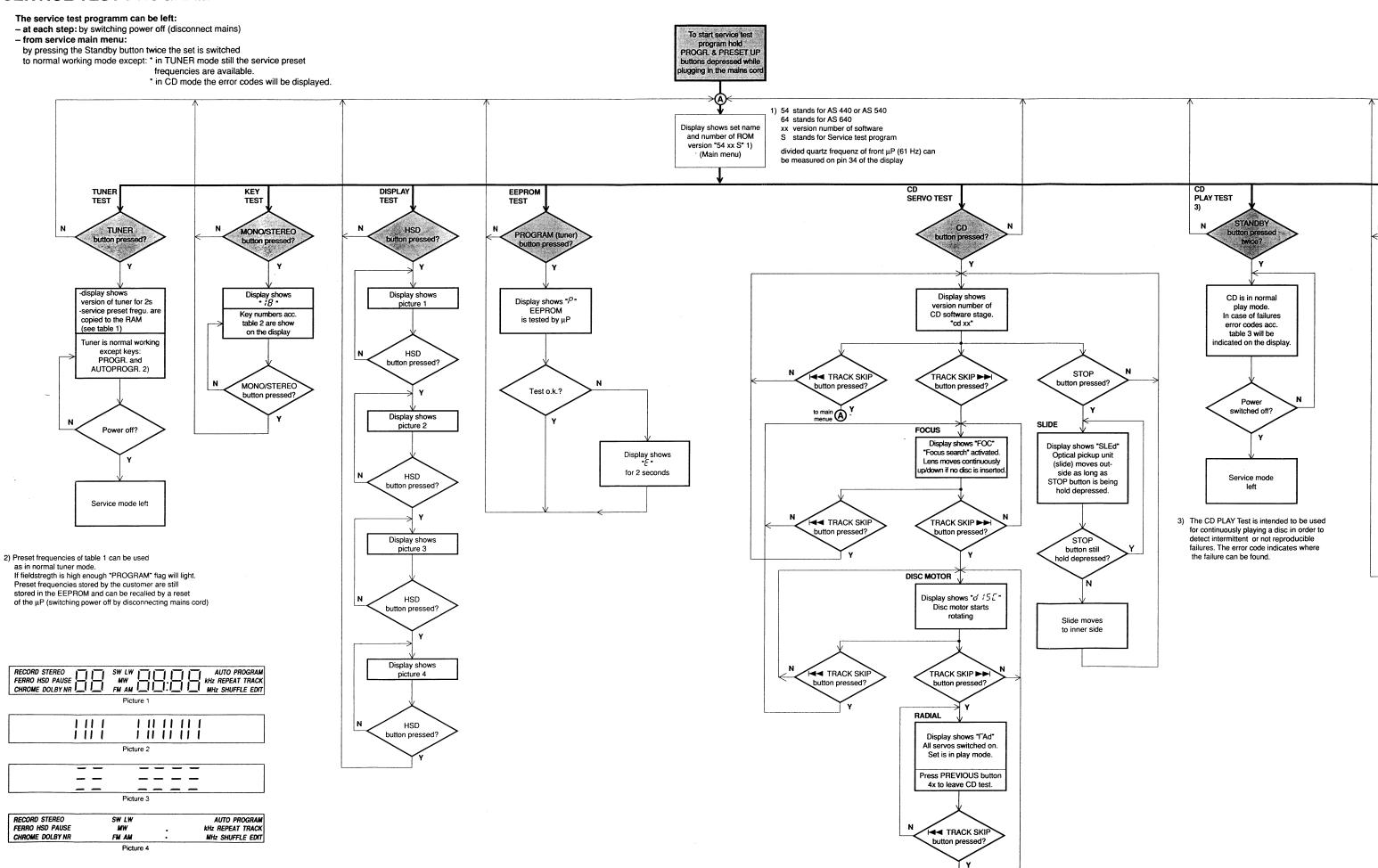
Remove Tape Transports and bracket (506)

- 1+2) Release two snaps as shown in picture 5.
- 3) Pull damper outside.

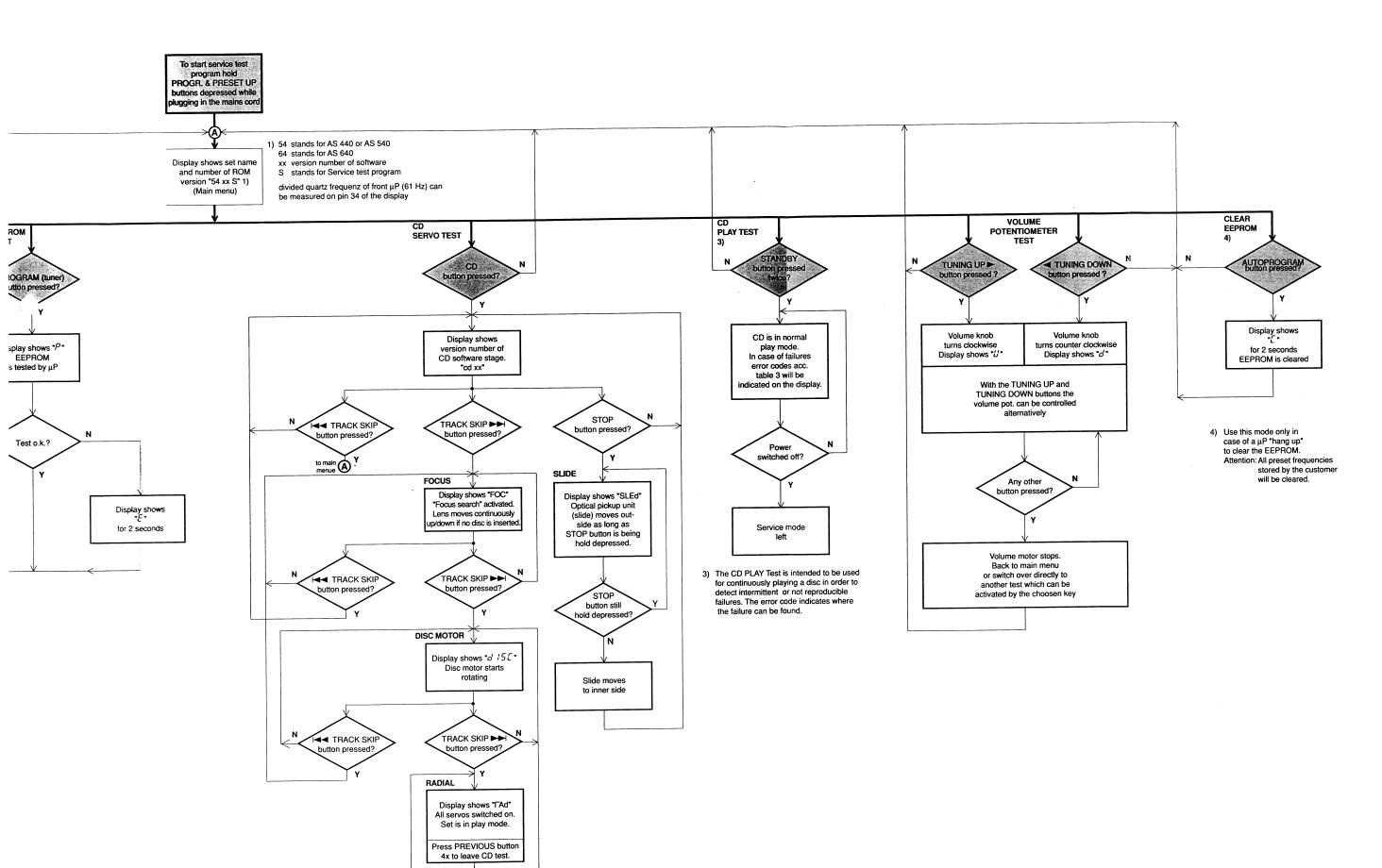


- 1) Turn Volume pot to max. (clockwise)
- 2) Pay attention to the polarity of the LED.
- 3) Turn the cable two times clockwise onto the axle.
- 4) Insert the knob.

SERVICE TEST PROGRAM



TRACK SKIP button pressed?



				VERSIO	N		
	EUR	EAS	USA	EUS	OSE	oss	
PRESET	Europe 3-band	East Europe 3-band	USA 2-band	Europe 4-band	Oversea 2-band	Oversea 3-band	UNIT
1	87,5	65,81	87,5	87,5	87,5	87,5	MHz
2	108	74	108	108	108	108	MHz
3	98	87,5	98	98	98	98	MHz
4	89,7	108	89,7	89,7	89,7	89,7	MHz
5	93	98	93	93	93	93	MHz
6	104,9	89,7	104,9	104,9	104,9	104,9	MHz
7	522	93	530	522	530	530	kHz
8	1611	104,9	1710	1611	1710	1710	kHz
9	540	522	540	540	540	540	kHz
10	549	1611	550	549	550	550	kHz
11	558	540	560	558	560	560	kHz
12	1494	549	1500	1494	1500	1500	kHz
13	153	558	1600	153	1600	1600	kHz
14	279	1494	1000	279	1000	3900	kHz
15	156	153		156		12100	kHz
16	198	279		198		4250	kHz
17	270	156		270		8000	kHz
18	999	198		5900		11900	kHz
19		270		18100		1000	kHz
20		999		6200			kHz
21				17000			kHz
22				12000			kHz
23				999			kHz

table 1

Key activated	Display shows	Key activated	Display shows
Tuning up	01	Autoprogram	17
Tuning down	03	Mono / Stereo	18
Preset up	04	Tuner	19
Preset down	02	Stand by	20
Dolby 1)	05	Tape	21
Band	06	Phono / Aux	22
Program(Tuner)	07	CD	23
Fe/Cr 1)	08		_
Introscan	09	Repeat	25
Pause (CD)	10	Shuffle	26
≪ Track skip	11	Review	27
Track skip ≫	12	Clear	28
HS dubbing	13		_
Open/Close	14	Edit 1)	30
Stop (CD)	15		
Play (CD)	16	Program (CD)	32

table 2

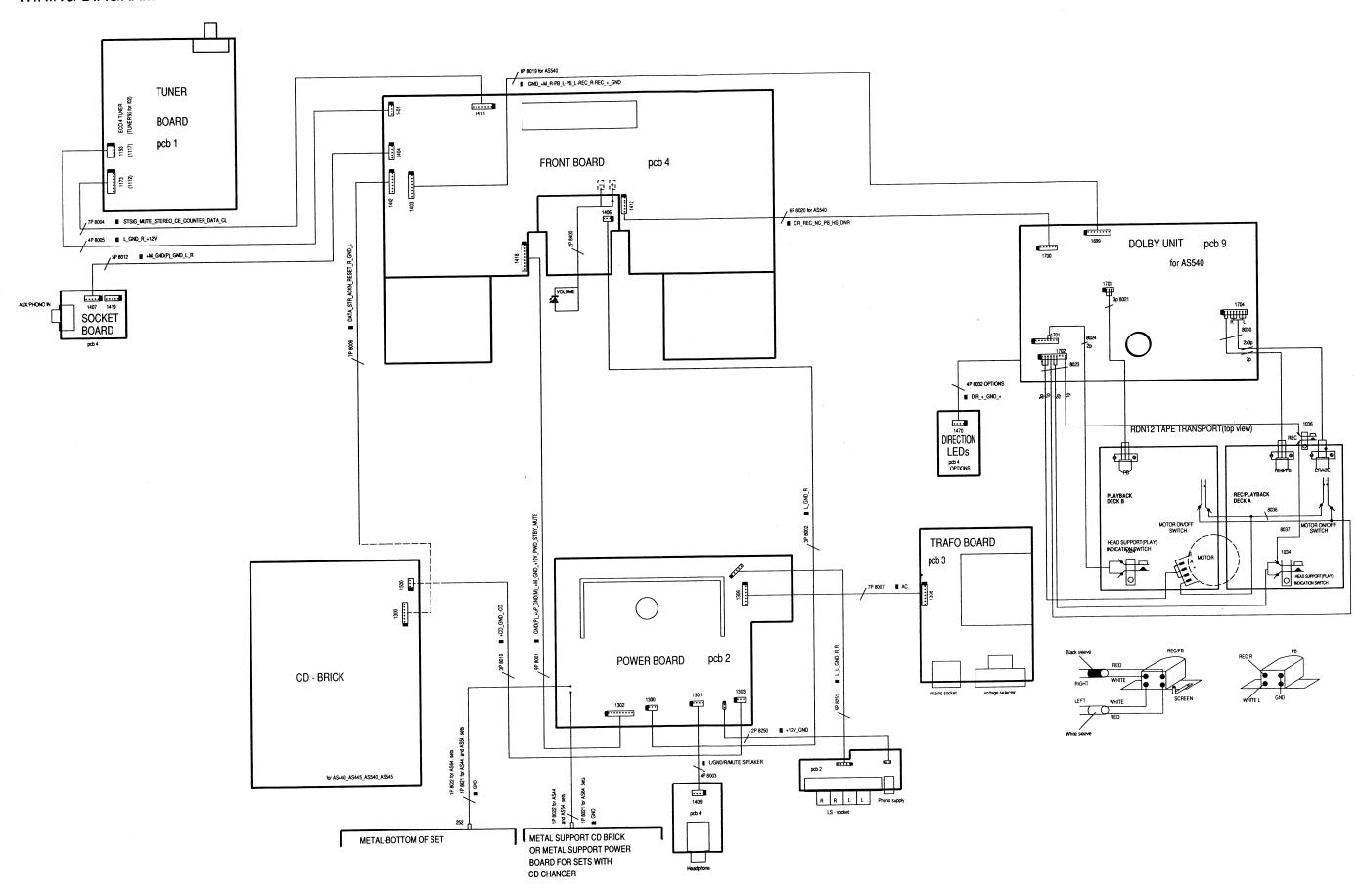
If a key is activated at the remote control $\digamma \not \sqsubseteq$ is shown additionally to the key number as long as the key is hold depressed.

Error cod	de shown splay	Description
Er	1002	Focus error
Er	1007	Subcode error, no valid subcode
Er	1008	TOC error, out of lead-in area while reading TOC
Er	1009	CD4 + decoder error
Er	1010	Radial error
Er	1012	Fatal sledge error
Er	1013	Turntable motor error
Er	1030	Too many grooves to jump
Er	1031	Search error
Er	1032	Search binary error
Er	1033	Search index error
Er	1034	Search time error
Er	1037	Selector error
Er	1050	Edit calculation error
Er	1051	Edit track count error
Er	1052	Edit Optimal error

table 3

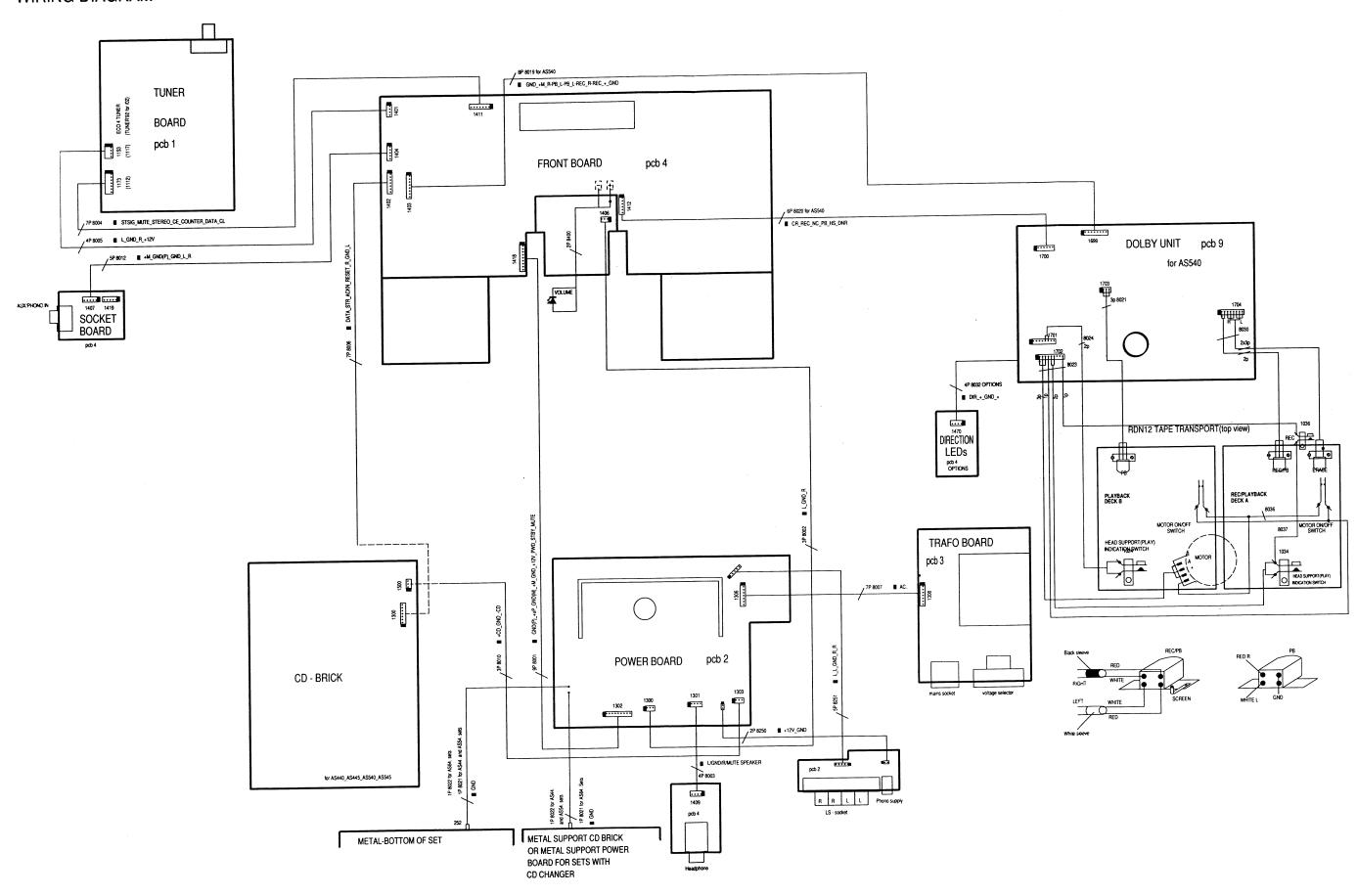
¹⁾ key not available in all versions.

WIRING DIAGRAM

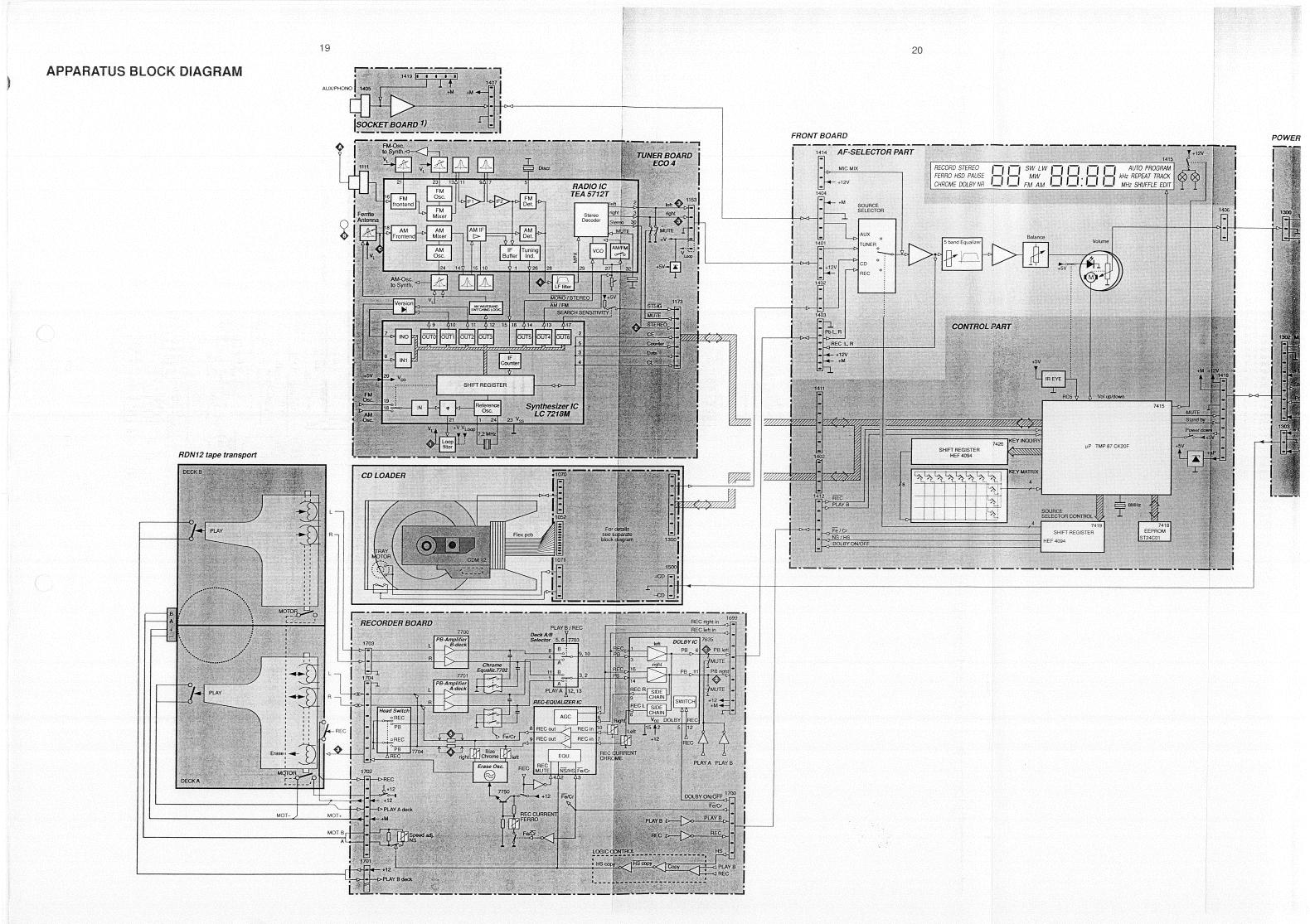


00 -- 700

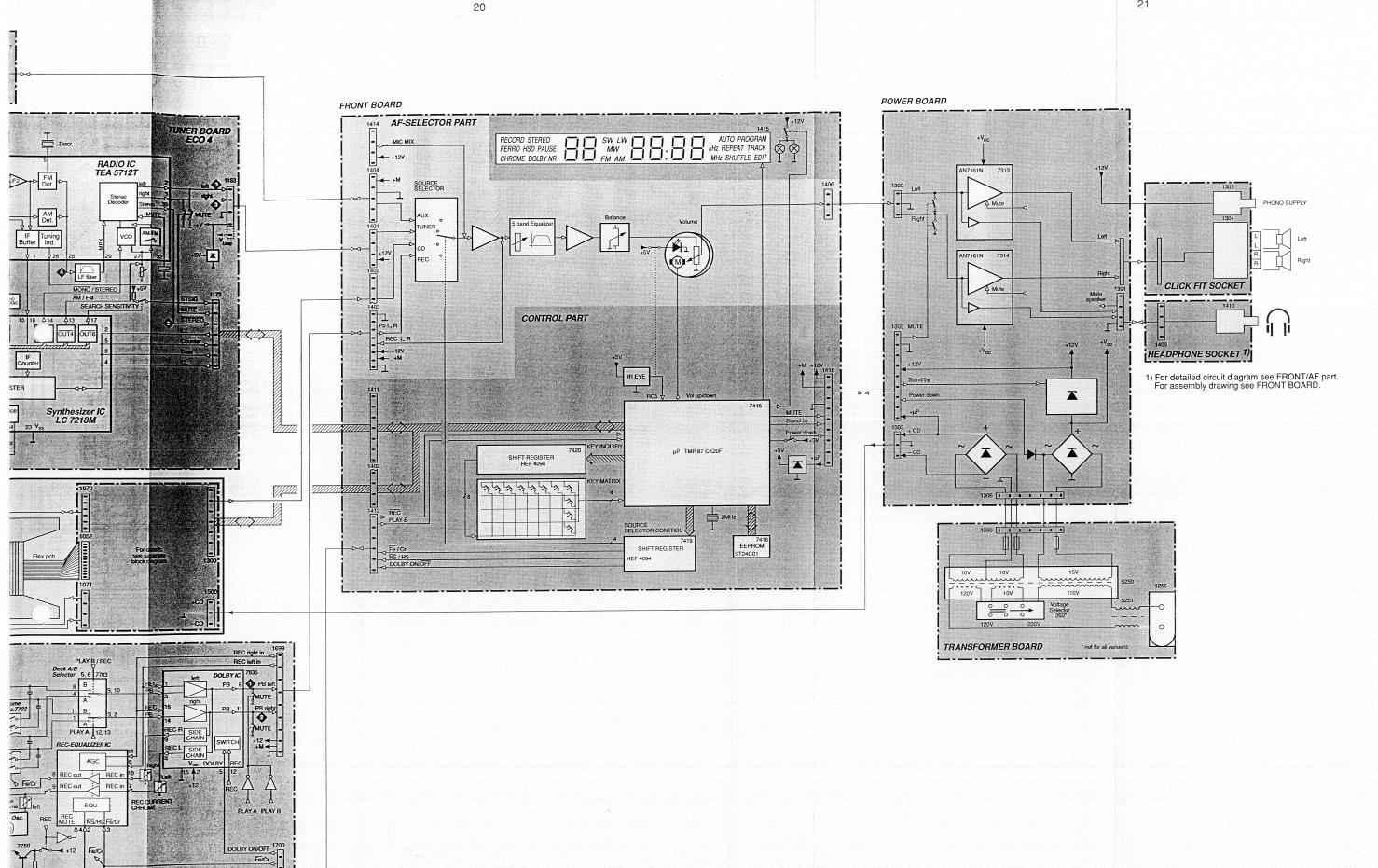
WIRING DIAGRAM



00 -- 70







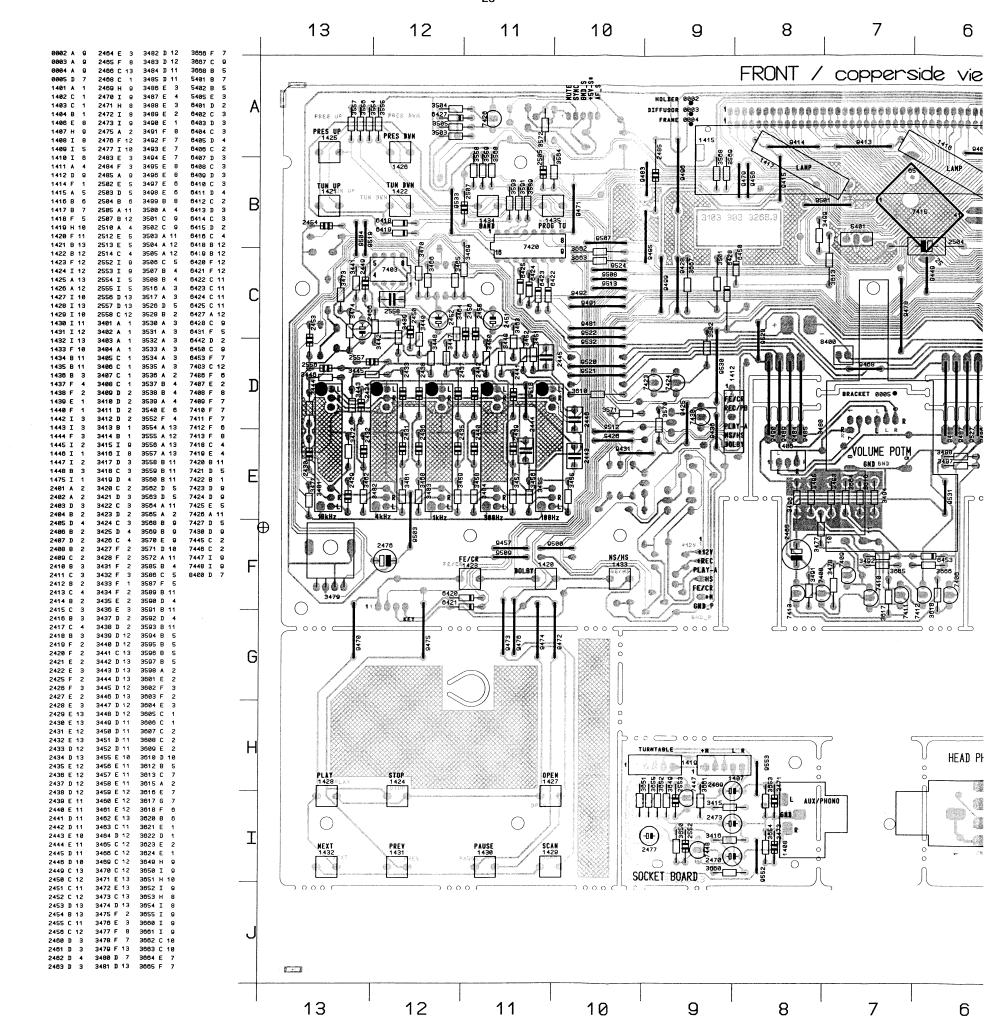
AGC

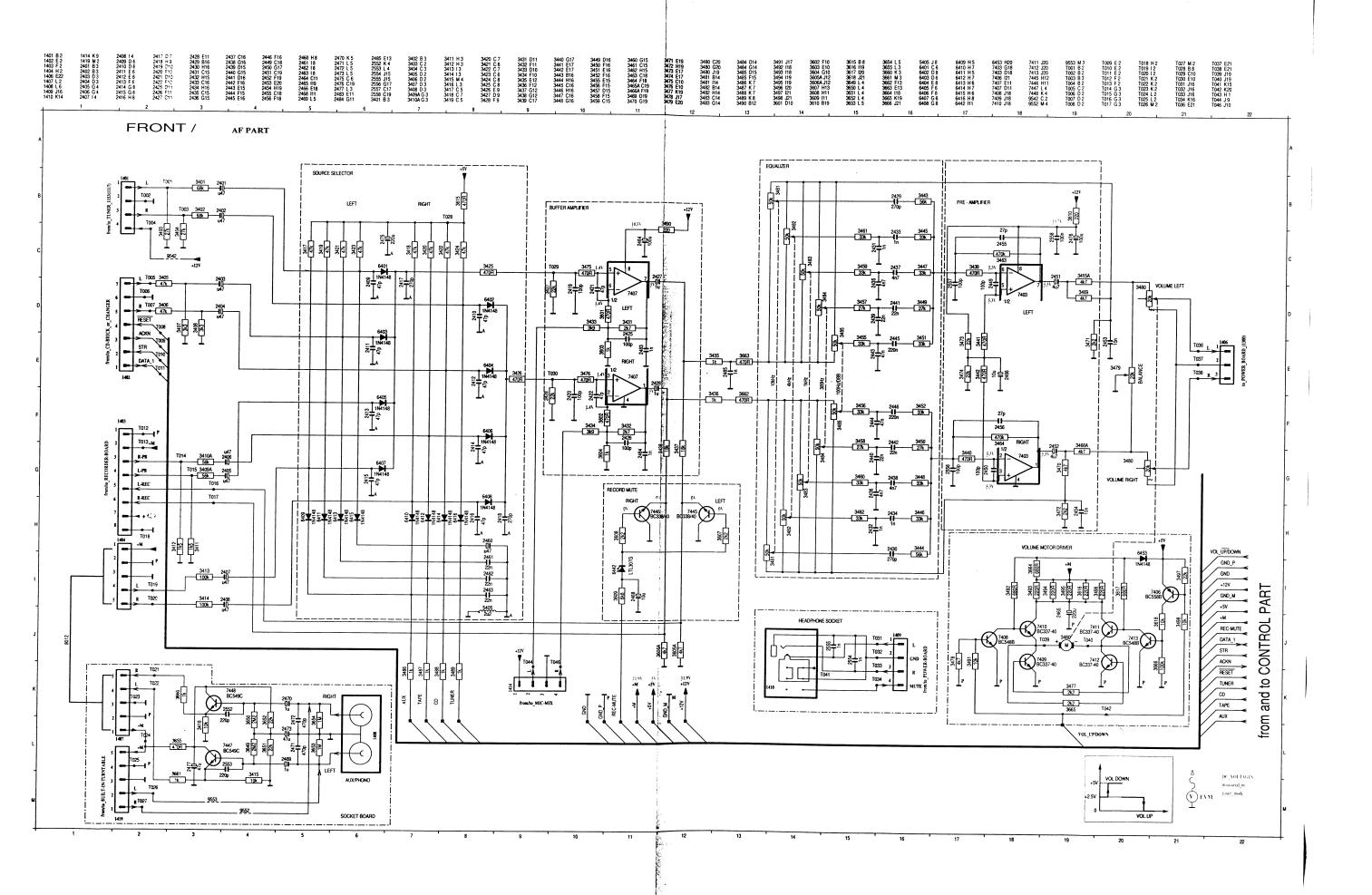
EQU.

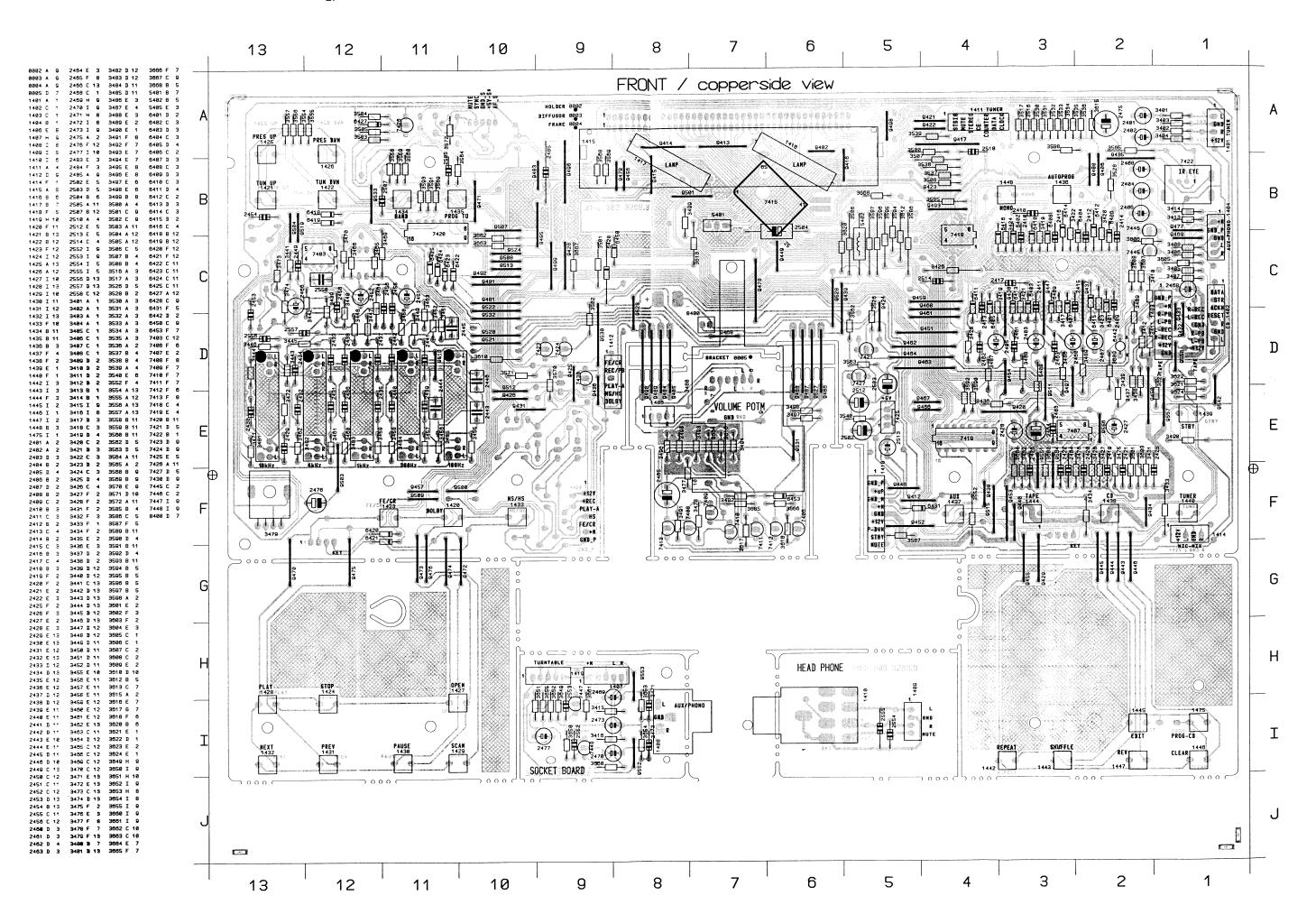
REC

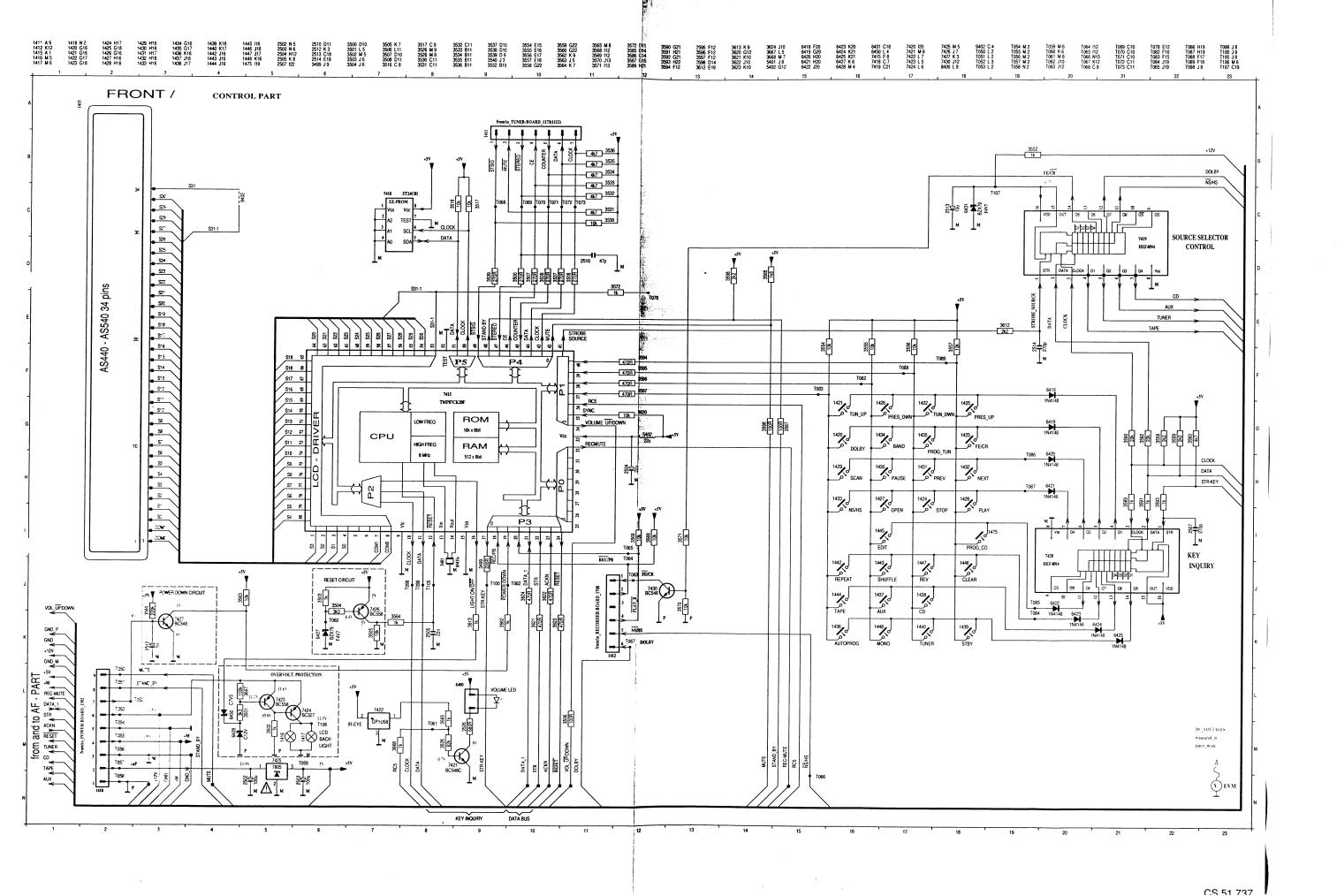
PLAYA PLAYB

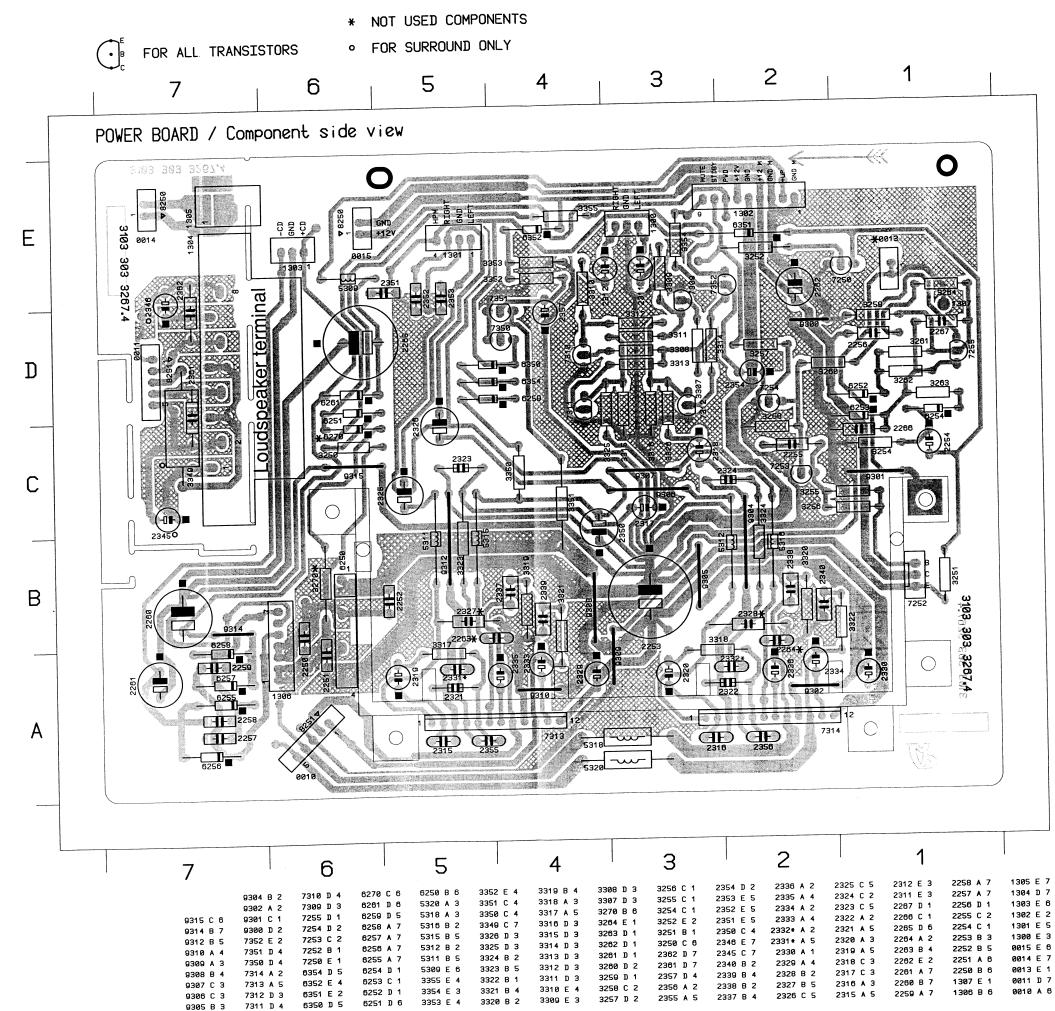
DOLBY ON OFF Fe/Cr PLAY B



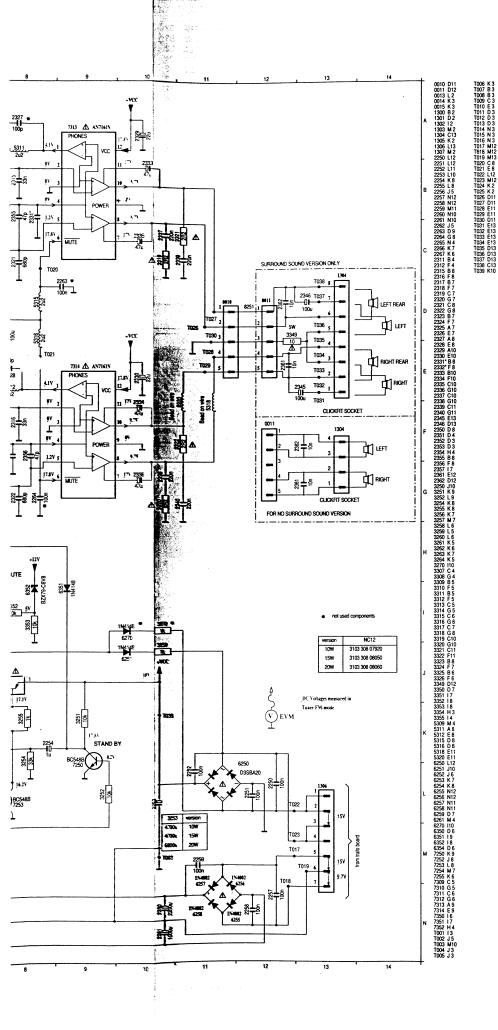






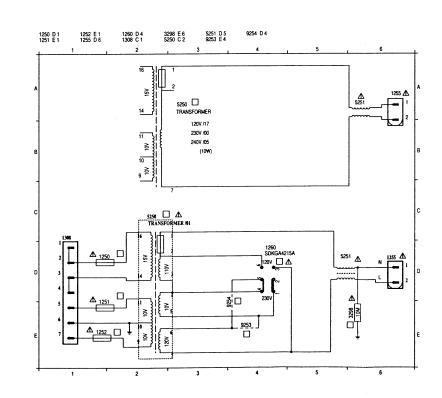


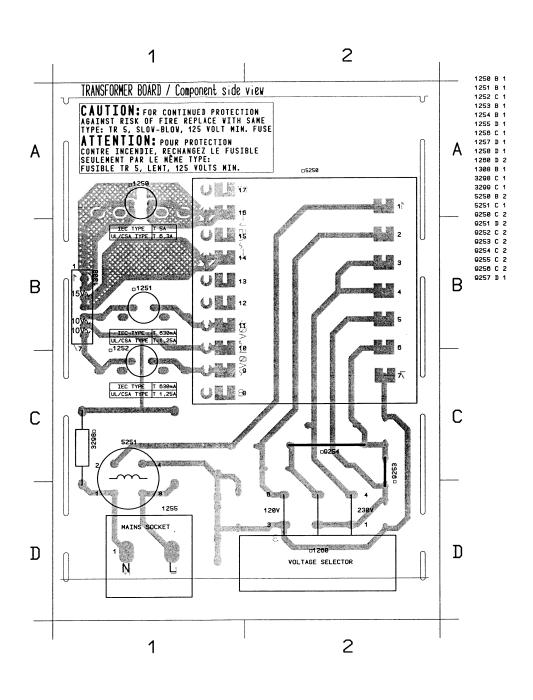
Transformer Board



c C0	MPONEN	TS	6]	DEI	PENDI	NG	ON	THE	VERS	ION
VERSION	COMPONENTS	1268	9253	9254	5250	3298	1250 (1254)	LUE OF FI 1251 (1253)	JSE 1252 (1258)	
/00	(IEC 230V)				/00		5A	630mA	630mA	
/05 ¹⁾	(240V)		х		/01		5A	630mA	630mA	
/17	(UL 120V)				/17	х	6,3A	1,25A	1,25A	
/01 /10	(120V,230V)	x		x	/01		5A	630mA	630mA	
/05 ¹⁾	(240V)				/05		5A	630mA	630mA	

1) for 15W and 20W versions /01 transformer for 10W version /05 transformer





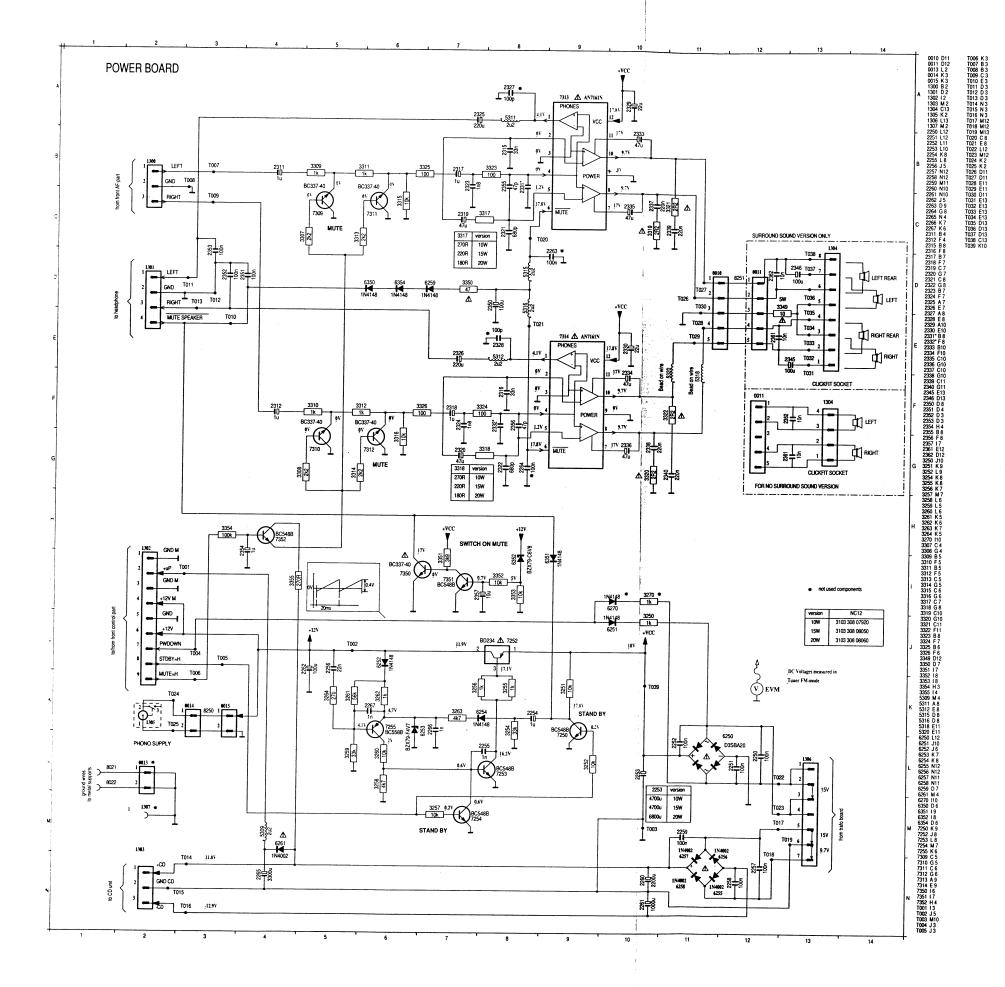
Transformer Board

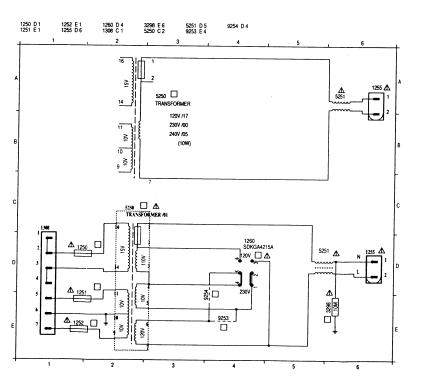
- COMPONENTS DEPENDING ON THE VERSION

	COMPONENTS						VA	LUE OF FE	JSE
VERSION		1268	9253	9254	5250	3298	1250 (1254)	1251 (1253)	1252 (1256)
/00	(IEC 230V)				/88		5A	630mA	830mA
/05 ¹⁾	(240V)		x		/01		5A	630mA	630mA
/17	(UL 120V)				/17	х	6,3A	1,25A	1,25A
	(1207,2307)	х		х	/01		5A	630mA	630mA
/05 ¹⁾	(240V)				/05		5A	630mA	630mA

1) for 15W and 20W versions /01 transformer

for 10W version /05 transformer





RECORDER ADJUSTMENT TABLE

					Adjust		
Adjustment	Cassette/Source	Recorder mode	Measure on	Read on	with	to	
Azimuth 1)	SBC419 or SBC420 8kHz	PLAY A-Deck PLAY B-Deck	or Phone socket	mV - meter	left-hand screw	maximum output left = right	
Motor speed 2)							
Normal speed	SBC419 or SBC420 3150Hz	PLAY A + B-Deck	or Phone socket	Wow and Flutter meter or Counter	3787	0±1%	
High speed 3)		HS-Dubbing		Counter	check only	> 5200Hz	
Bias current		REC A-Deck	\wedge		3763 left	5,9mV	
		Chrome	4>	mV-meter	3764 right	5,9mV	
		REC A-Deck Ferro	\$	The motor	3756	3,8mV	
Record current 4)	SBC419	Rec A-Deck	4>	mV - meter	3667 left	0,62mV	
	Adjust input level to	Chrome	\$	- mv - meter	3668 right	0,62mV	
	$300\text{mV} \pm 1\text{dB on}$	Rec A-Deck	4	mV - meter	check	0,44mV ± 1dB	
	SBC420	Ferro	\$	Tilly - meter	check	0,44mV ± 1dB	

CHECK ONLY

Check	Cassette/Source	Recorder mode	Measure on	Read on	Check if	
Wow and Flutter	SBC419 or SBC420	PLAY A or B-Deck	$\langle 1 \rangle \langle 2 \rangle$	Wow and Flutter meter	≤ 0,3% weighted	
	3150Hz	PLAY A and B-Deck	or Phone socket		≤ 0,35% weighted	
Erase Oscillator	i		^	mV - meter	Fe ≥ 11,8Vrms	
Voltage	any	REC A-deck	3		Cr ≥ 20,8Vrms	
Frequency			Erase head	Counter	f = 88kHz ± 4kHz	
Playback level 5)	Dolby reference	PLAY A-Deck			300mV ± 1dB	
	cassette		$\langle 1 \rangle \langle 2 \rangle$	mV - meter	(350mV ± 1dB)	
C	(SSC419 or SBC420, 315Hz)	PLAY B-Deck			300mV ± 1dB (350mV ± 1dB)	
Frequency response	SBC419 or SBC420		$\langle 1 \rangle \langle 2 \rangle$		125Hz - 12,5kHz within 8dB	
Playback	^ ^	PLAY A or B-Deck				
Overall	$A \otimes B$	REC A-Deck		mV - meter		
	input level = 3mV	PLAY A-Deck	$\langle 1 \rangle \langle 2 \rangle$		125Hz - 12,5kHz within 10dE 125Hz - 8kHz dubbing	
Distortion	SBC419 or SBC420					
	$A \otimes B$	REC A-Deck				
	input level = 30mV	PLAY A-Deck	$\langle 1 \rangle \langle 2 \rangle$	mV - meter	D ≤ 3%	

SBC 420 Service code: 4822 397 30071 SBC 419 Service code: 4822 397 30069

E10 3699 E14 3719 D2 37

33 B13 3700 E12 3720 D3

.664 B12 3701 F14 3721 D2
3665 B7 3702 E12 3722 D4
3666 B6 3703 E13 3723 r

.7 3667 B10 3704 E12 3724

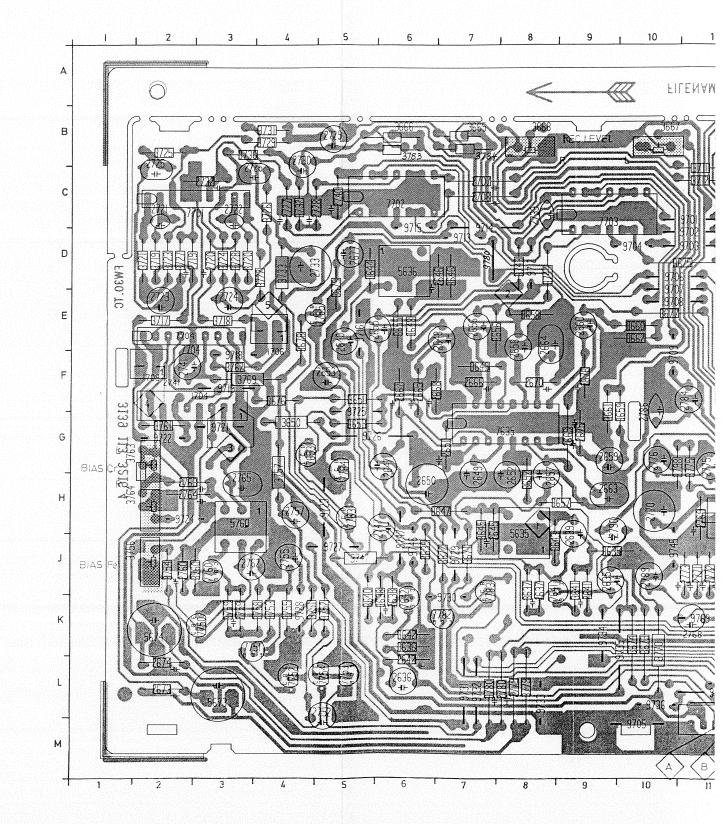
G4 3668 B8 3705 C13 372

1 F5 3671 J7 3706 E11 37

.52 H8 3672 J7 3707 E14
3653 G5 3673 K10 3708 E12
3655 E6 3674 K10 3709 Cr
3656 E7 3675 D11 3710
2457 H9 3676 F4 3711

F8 3677 E00 37'
3678 E4 ?

F13 5 F6 2705 C14 2728 C4
5 F7 2706 C12 2729 B5
7 F6 2707 C7 2730 B4
8 F6 2708 C7 2732 B3
9 G9 2709 C13 2733 D4
1 F8 2710 C12 2739 C8
1 L2 2712 C13 2740 C5
1 L2 2713 D12 2741 F2
6 G9 2719 D2 2752 L5
6 F9 2720 D3 2755 J4
D5 2721 C2 2757 H4
E13 2722 C3 2759 K3
E13 2723 E2 2760 J2
D13 2724 E3 2762 J3
D12 2725 B2 2763 H2
E13 2726 B3 2764 H2
E12 2727 C4 2765 H3 3644 D5 3662 3645 J7 3663 3646 D7 3664 3647 H6 3665 3648 E6 3666 3649 F7 3667 3650 G4 3668 3651 F5 3671 3652 H8 3672 3653 G5 3673 3655 E6 3674 3656 E7 3675 3657 H9 3676 3658 E8 3677 3659 G9 3678 3660 E10 3697 3661 G9 3698 2768 K11 2785 J13 2769 H11 2786 G10 2770 H10 2787 J11 2771 J11 2788 G10 2772 J11 2789 J10 2773 J11 2789 H9 2774 J12 2791 J13 2775 G11 2792 H14 2776 G10 2675 J9 3736 E14 3757 3737 E15 3758 3738 F14 3759 1699 M11 2647 G6.
1701 D15 2648 F7.
1702 D15 2649 H7.
1703 E12 2650 H6.
1704 F3 2651 G7.
1706 F4 2652 H8.
1708 F2 2653 F5.
2635 J9 2655 E6.
2636 L6 2656 E7. 2666 F7 2667 F6 2668 F6 2669 G9 3738 F14 3759 K3 3776
H15 3760 J2 3777
H14 3761 G2 3778
H15 3762 F3 3779
3743 D8 3763 H1 3780
3744 D8 3764 H1 3781
3745 E13 3765 J16 3783
3746 E12 3766 J16 3784
3747 J5 3767 K12 3785
3751 K4 3768 L13 3786
3752 K5 3769 F3 3787
3753 K4 3770 K10
3754 J2 3771 K12 3789
3755 K4 3772 K12 3790
3756 J1 3773 K11 2659 G9 2673 L2 2674 L2 2675 G9 2676 F9 2677 D5 2699 E13 2775 G11 2792 H14 2776 G10 3635 J9 2777 J13 3636 K6 2778 G13 3637 J8 2779 L8 3638 K6 2780 L8 3639 J6 2781 J14 3640 K5 2782 H13 3641 J9 2783 H13 3642 K6 2784 F11 3643 J8 2655 E6 2656 E7 2657 H8 2658 F8 2659 G9 2660 E9 2638 K6 2639 J9 2640 E5 D11 3710 C12 3730 B3 F4 3711 C11 3731 B4 E10 3712 C11 3732 C4 E4 3713 G12 3733 D4 F13 3717 E2 3734 E15 2700 E13 2723 E2 2701 D13 2724 E3 2702 D12 2725 B2 2703 E13 2726 B3 2704 E12 2727 C4 2663 H9 3661 G9 3698 F13 3718 E3



¹⁾ For Azimuth adjustment set needs not to be dismantled. Remove ornamental part of cassette door and put screwdriver (torx5) through holes of cassette door.

²⁾ Pot. on motor has to be preadjusted to min. speed first (turn pot ccw to stop position). Difference between Deck A and Deck B has to be ≤2%.

³⁾ Insert SBC419 or SBC420 in B-Deck and use High speed dubbing mode to check frequency.

⁴⁾ Check Pb level, Frequency Response and Distortion after recording: 300mV ± 1dB, D ≤3% - otherwise readjust record current, respectively bias current

⁵⁾ Values in parenthesis are measured with DIN level cassette

9745 J10 9764 F16 9746 J6 9765 D15 9747 J6 9766 D16

9728 9729 9730

C4

2706 2707 2708

2648 F7 5 2649 H7 2650 H6 2651

2651

1702 1703

1704

E12

2666

2667 2668

2669

F6

F6

2768 K11 2785 J13 3644 D5 2769 H11 2786 G10 3645 J7 2770 H10 2787 J11 3646 D7

2769 H11 2786 G10 3645 2770 H10 2787 J11 3646 2771 J11 2788 G10 3647

3662

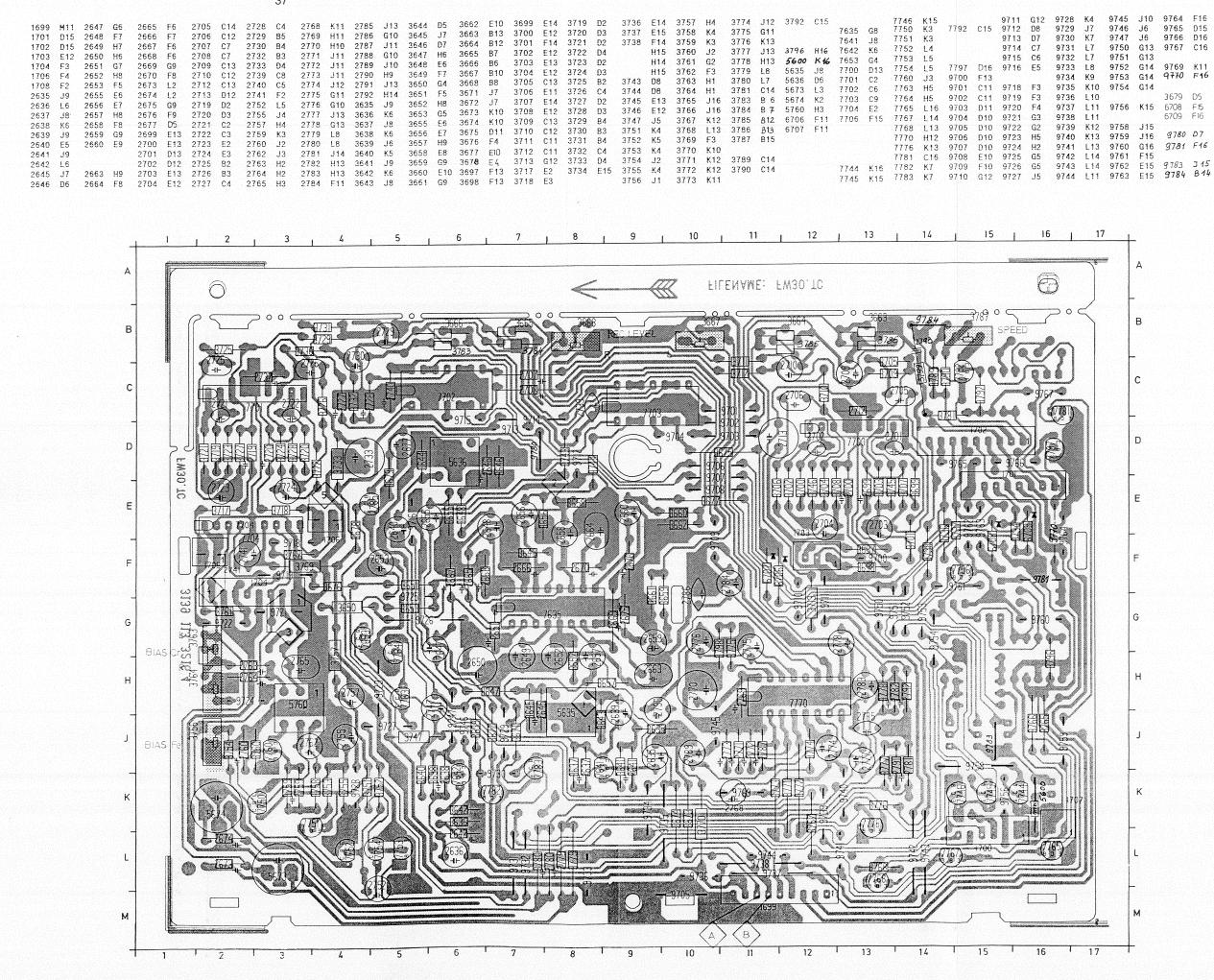
3663 B13 3700 3664 B12 3701 3665 B7 3702

Adjust							
ith	to						
nand rew	maximum output left = right						
87	0±1%						
only	> 5200Hz						
3 left	5,9mV						
right	5,9mV						
56	3,8mV						
7 left	0,62mV						
right	0,62mV						
eck	0,44mV ± 1dB						
eck	0,44mV ± 1dB						

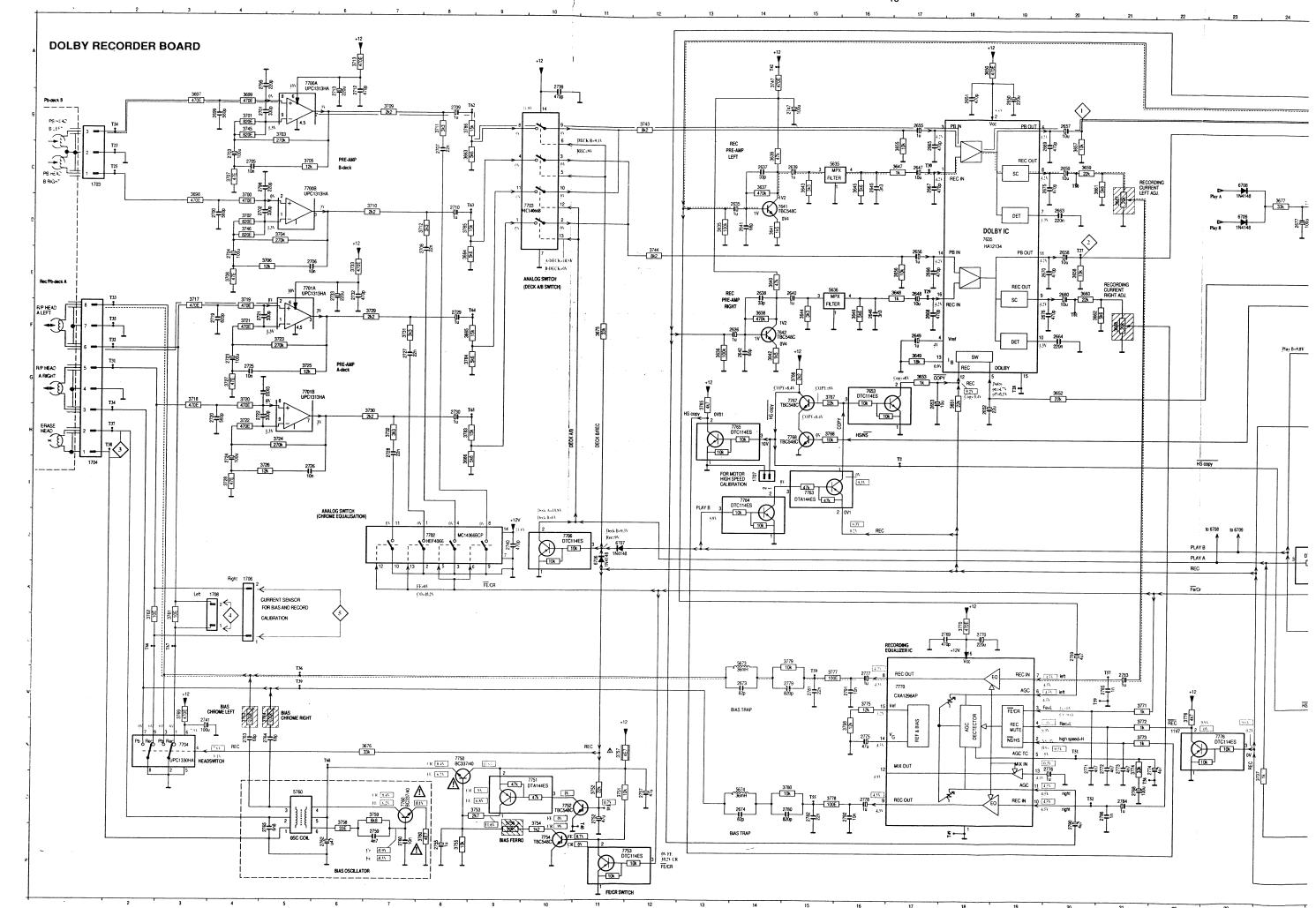
	Check if
≤ 0,:	3% weighted
0,3	5% weighted
	≥ 11,8Vrms ≥ 20,8Vrms
= 8	8kHz ± 4kHz
30	0mV ± 1dB
(35	0mV ± 1dB)
30	0r : 1dB
(35	$0mV \pm 1dB)$
<u>z - 1</u>	2,5kHz within 8dB
- 13	2,5kHz within 10dE
-11-	- 8kHz dubbina

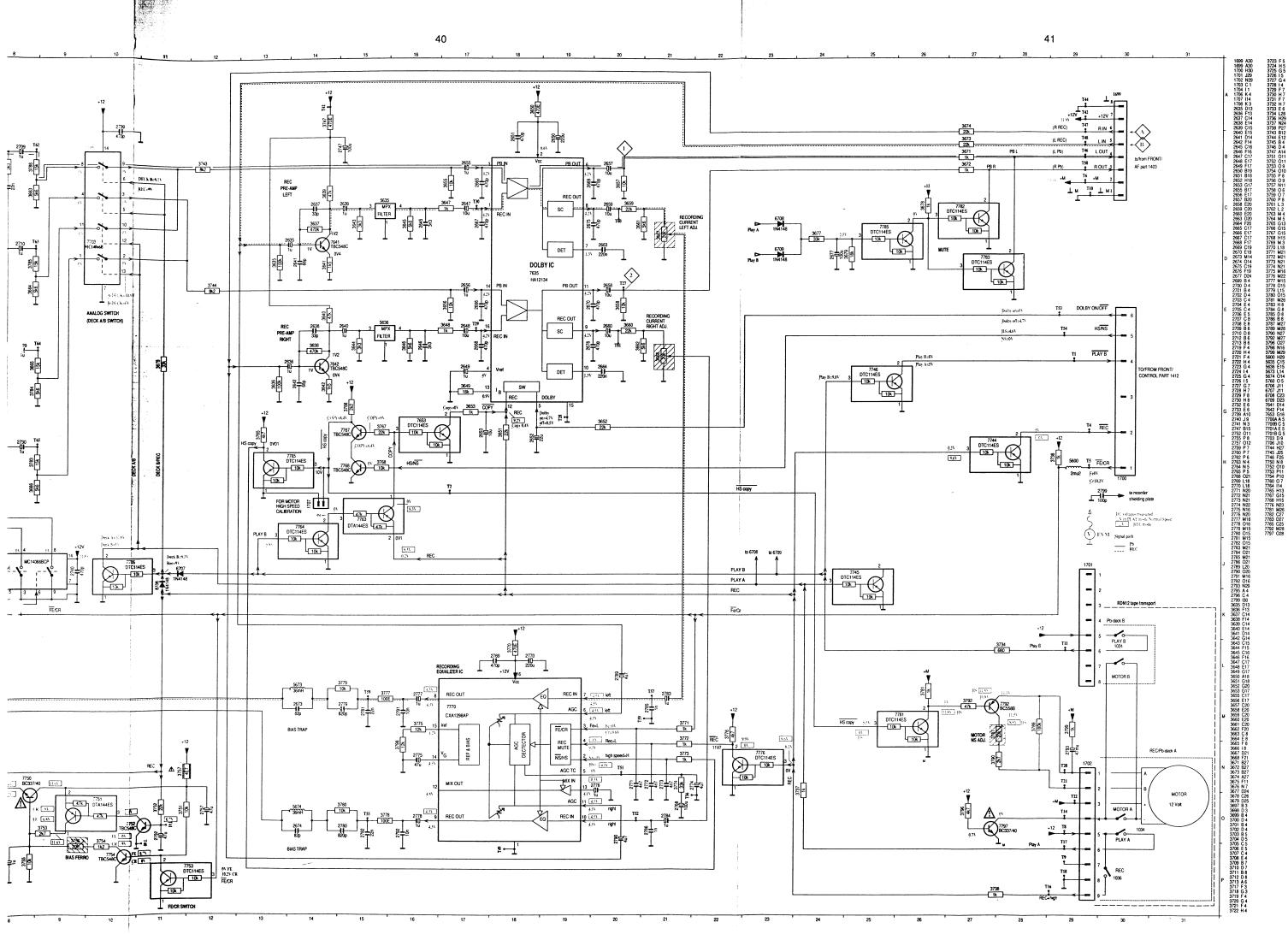
er (torx5) through holes Deck B has to be ≤2% ord current, respectively

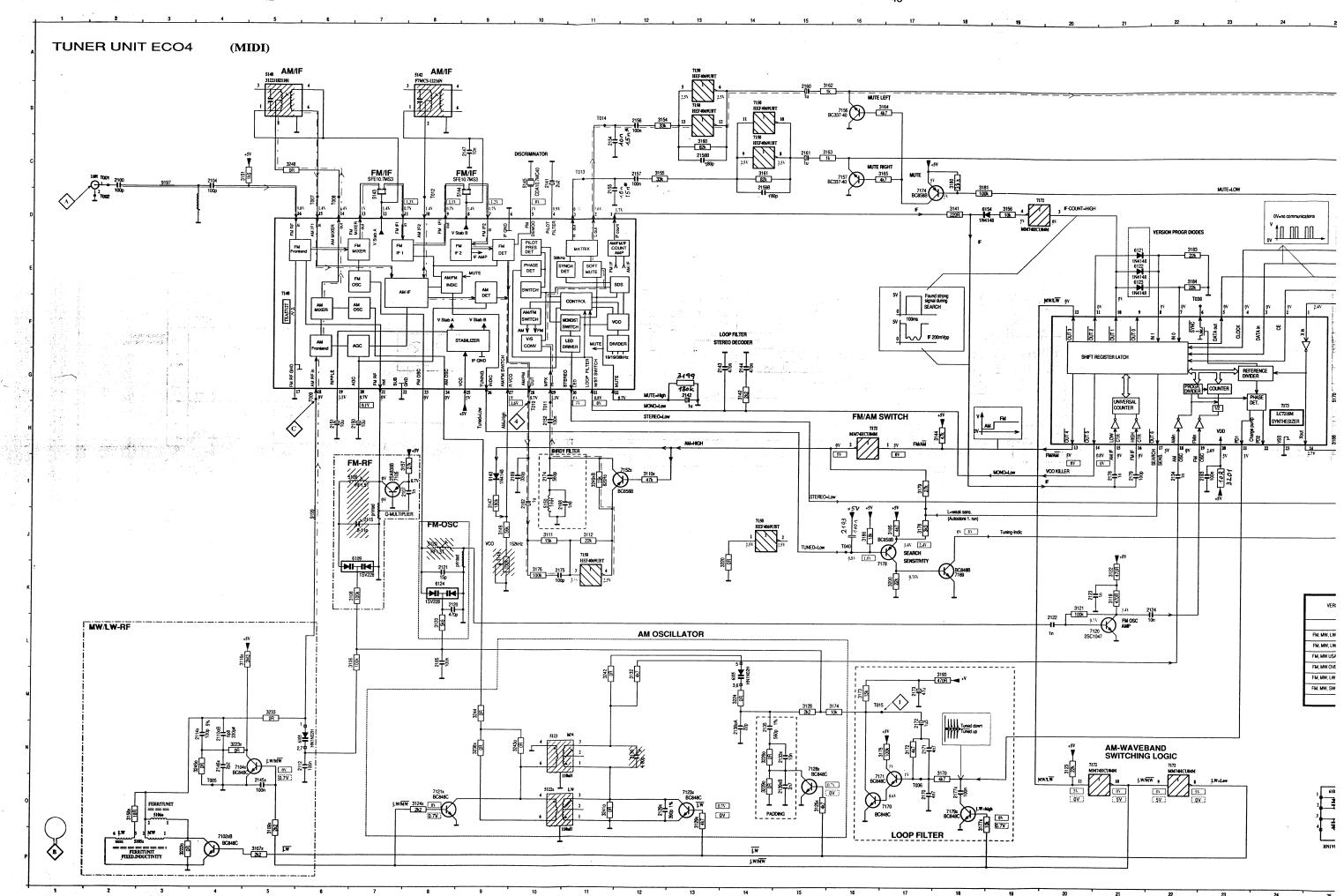
D ≤ 3%



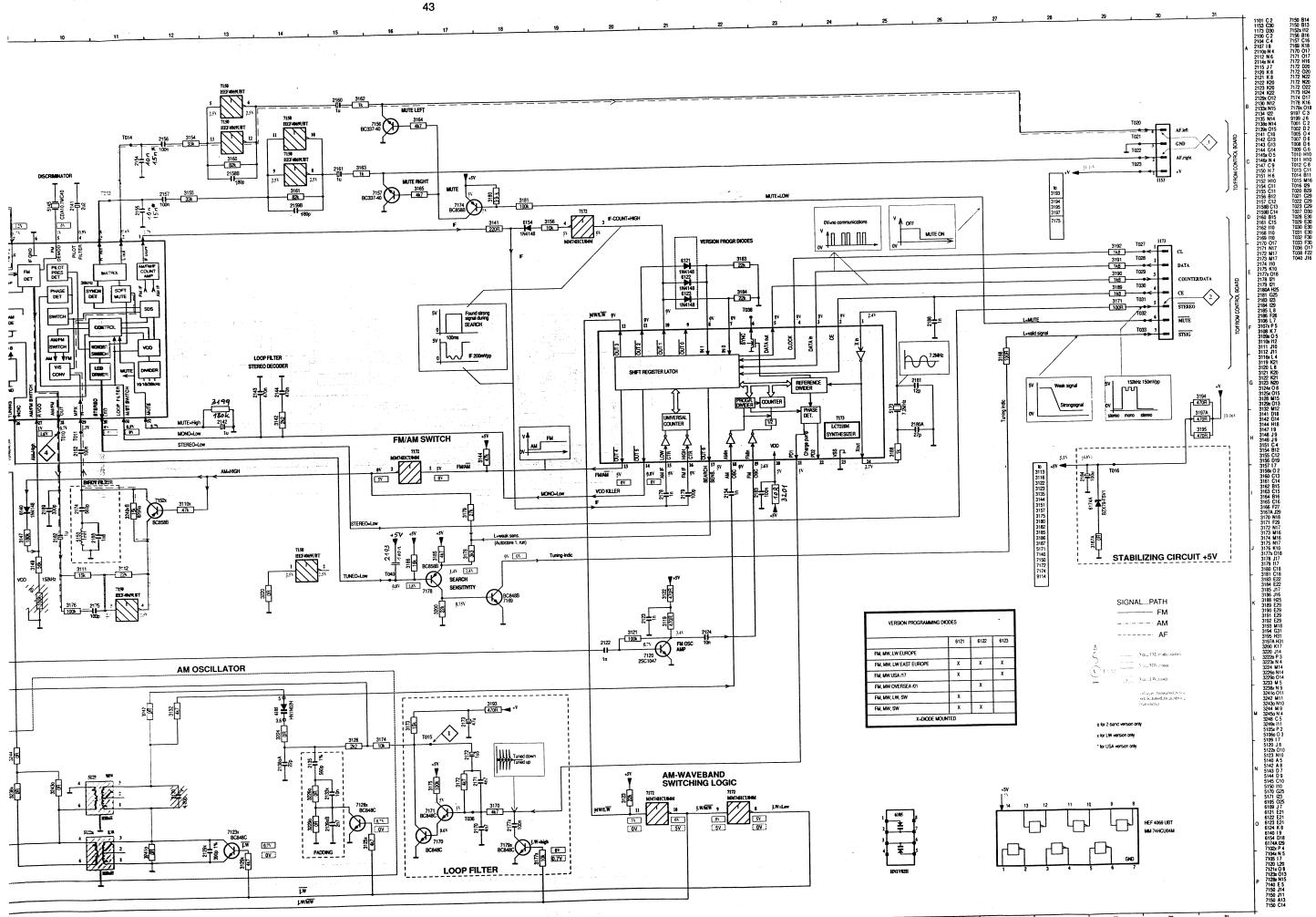
E14 3719 D2 E12 3720 D3 F14 3721 D2 E12 3722 D4 E13 3723 D2

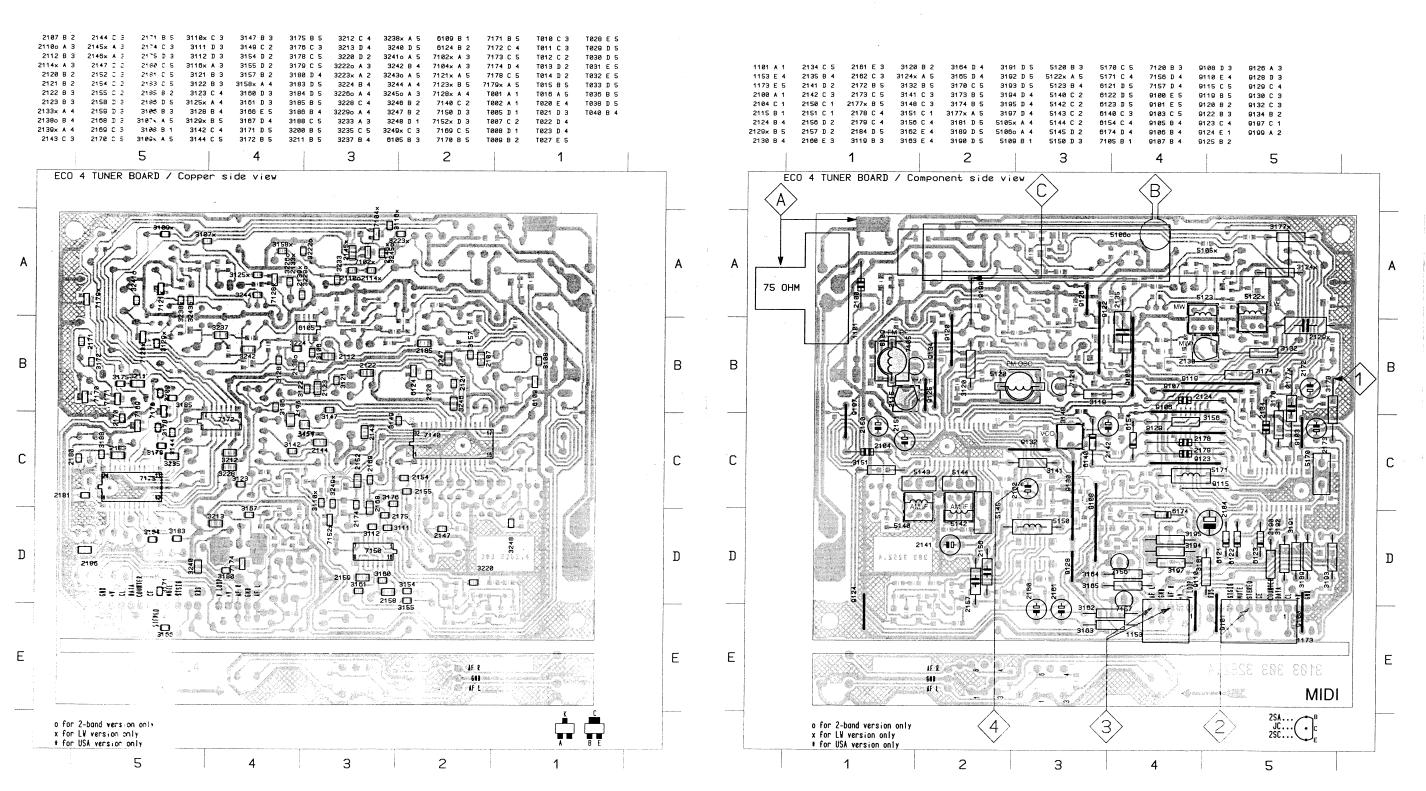












TUNER Adjustme Waverange VARICAP ALIGNMEN **FM** /00/01/05/10/17 87.5 - 108MHz FM /14 East Europe 65.81 - 108MHz MW /01/17 2-band version, 10kHz grid 530 - 1710kHz **LW** /00/05/10/14 153 - 279kHz MW /00/05/10/14 522 - 1611kHz FM - RF FM /00/01/05/10/17 FM /14 East Europe VCO FΜ

AM - IF

MW

AM - RF

LW

MW /00/05/10/14 3-band version

MW /01/17 2-band version

repeat

^{*} Use Service Test Prog 1) Adjustment of AM-RF brackets after AM-RF

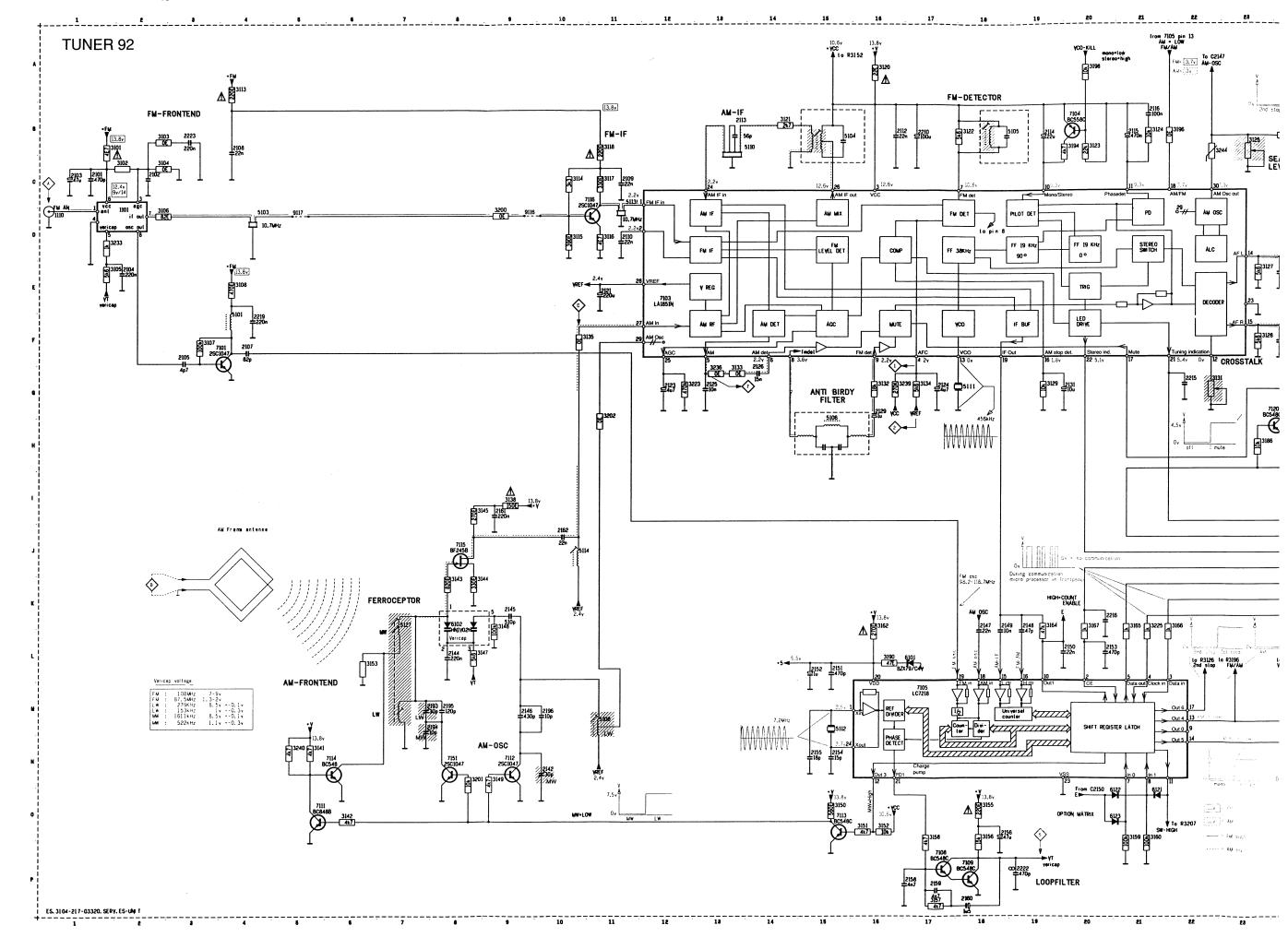
TUNER Adjustment table (ECO 4 FM/MW- and FM/MW/LW - versions with AM-ferrite antenna)

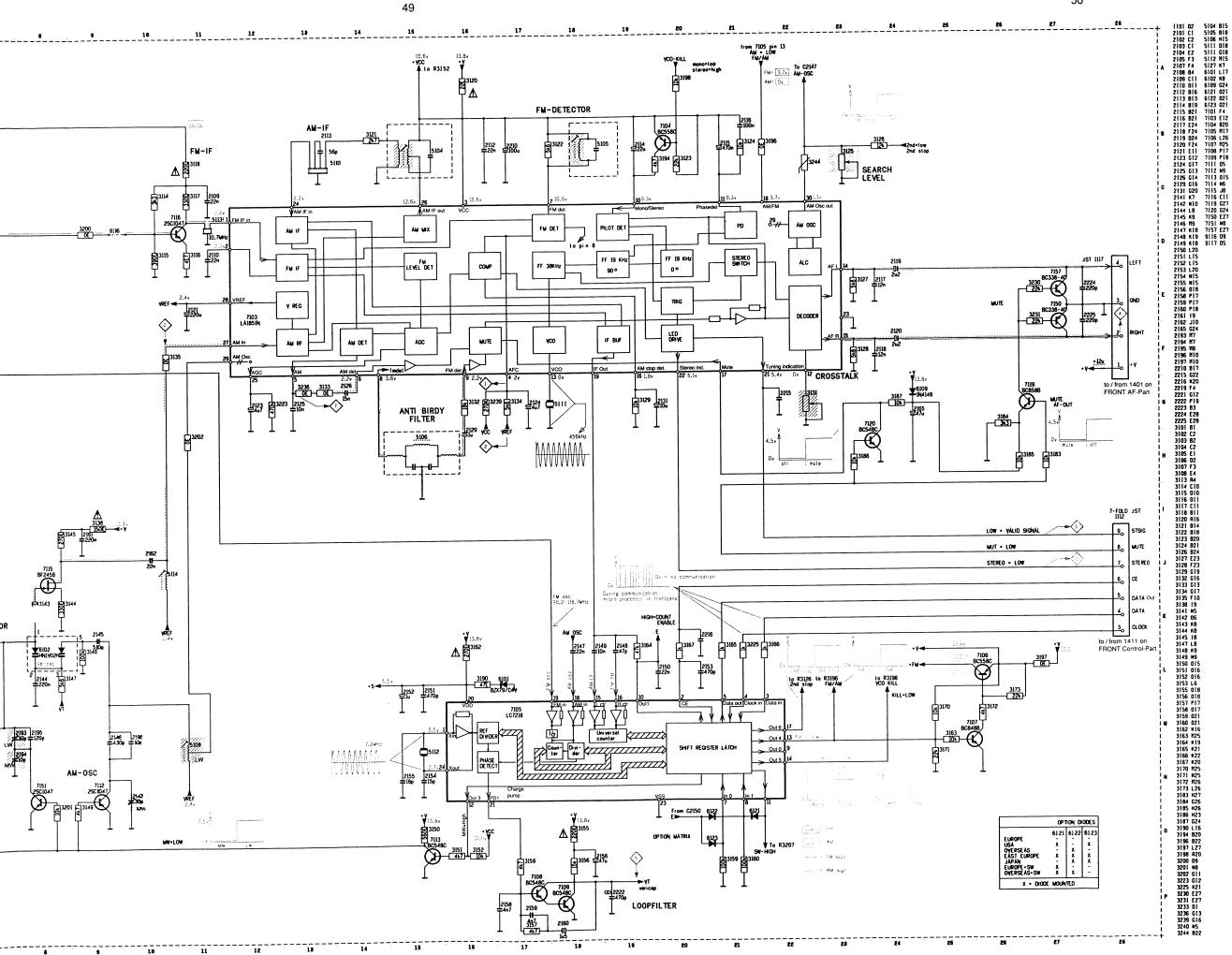
Waverange	Input frequency	Input	Set tuned to	Adjust	Output	Scope / Voltmeter	
VARICAP ALIGNMEN	T * 1)						
FM /00/01/05/10/17			108 MHz	5120		8V ± 0.2V	
87.5 - 108MHz			87.5MHz	check		4.1V ± 0.5V	
FM /14 East Europe			108 MHz	5120		8V ± 0.2V	
65.81 - 108MHz			65.81 MHz	check		0.8V ± 0.4V	
MW /01/17			1710kHz	5123	$\langle 1 \rangle$	9V±0.1V (7.5±0.7V)	
2-band version, 10kHz grid 530 - 1710kHz			530kHz	check		1V±0.4V (1.1±0.5V)	
LW /00/05/10/14			279kHz	5122		8V±0.2V (7.5±1.5V)	
153 - 279kHz			153kHz	check		1V±0.4V (1.1±0.5V)	
MW /00/05/10/14			1611kHz	5123		8V±0.1V (7.5±0.5V)	
522 - 1611kHz			522kHz	check		1V±0.4V (1.1±0.5V)	
FM - RF							
FM /00/01/05/10/17	108MHz		108MHz	2115			
	87.5MHz] < <u>A</u> >	87.5MHz	5109	3	MAX	
FM /14	108MHz	mod=1kHz	108MHz	2115		I IMAX	
East Europe	65.81MHz	Δf=22.5kHz	65.81MHz	5109			
VCO							
FM	98 MHz, 1mV						
	continuous wave	$ \langle A \rangle $	98MHz	3148	2	152kHz ± 1kHz	
AM - IF							
	540kHz	100nF	540114		_		
MW	$\Delta f = 10kHz$ as low as possible	50E	540kHz	5142 5140	4	symmetrical and max height	
		또 ♡					
AM - RF			<u> </u>			1	
LW	198kHz		198kHz	5122		MAX	
MW /00/05/10/14	1494kHz		1494kHz	2130	\wedge		
3-band version	549kHz	$\mid \langle B \rangle \mid$	549kHz	5123	4	4	
MW /01/17	1500kHz	mod=1kHz	1500kHz	2130	*	MAX	
2-band version	550kHz	30% AM	550kHz	5123		!	

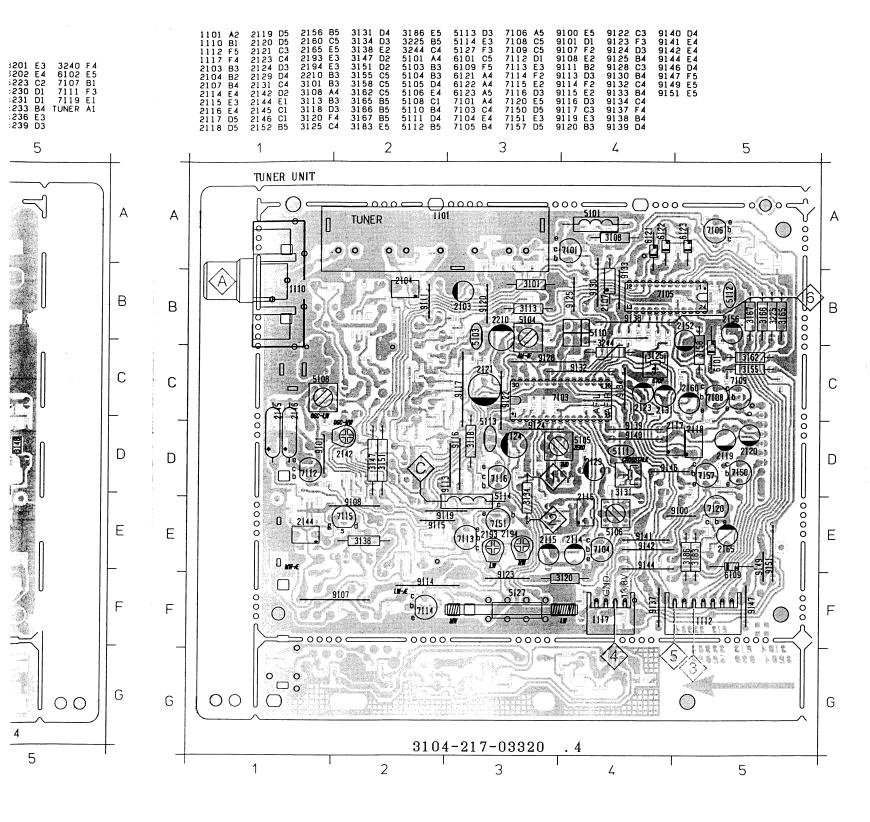
 ^{*} Use Service Test Program. By selecting the TUNER TEST, test frequencies will be stored as preset frequ. automatically.
 Adjustment of AM-RF stage influences the varicap voltage. Therefore check if varicap voltage fulfils value stated within brackets after AM-RF adjustment.

repeat

3 T029 2 T030 2 T031 2 T032 5 T033 5 T036 4 T038	8 E 5 0 D 5 0 E 5 2 E 5 3 B 5 3 B 5 3 B 5			1101 A 1 1153 E 4 1173 E 5 2100 A 1 2104 C 1 2115 B 1 2124 B 4 2129x B 5 2130 B 4	2134 C 5 2135 B 4 2141 D 2 2142 C 3 2150 C 1 2151 C 1 2150 D 2 2157 D 2 2160 E 3	2161 E 3 2162 C 3 2172 B 5 2173 C 5 2177x B 5 2178 C 4 2179 C 4 2184 D 5 3119 B 3	3120 B 2 3124x A 5 3132 B 5 3141 C 3 3148 C 3 3151 C 1 3156 C 4 3162 E 4 3163 E 4	3164 D 4 3165 D 4 3170 C 5 3173 B 5 3174 B 5 3177 A 5 3181 D 5 3189 D 5 3190 D 5	3191 D 5 3192 D 5 3193 D 5 3194 D 4 3195 D 4 3197 D 4 5185x A 4 5185x A 4 51860 A 4 5109 B 1	5120 B 3 5122x A 5 5123 B 4 5140 C 2 5142 C 2 5143 C 2 5144 C 2 5145 D 2 5150 D 3	5170 C S 5171 C 4 6121 D 5 6122 D 5 6123 D 5 6140 C 3 6154 C 4 6174 D 4 7105 B 1	7120 B 3 7156 D 4 9100 E 5 9101 E 5 9103 C 5 9103 C 5 9105 B 4 9106 B 4 9107 B 4	9108 D 3 9110 E 4 9115 C 5 9119 B 5 9120 B 2 9122 B 3 9123 C 4 9124 E 1 9125 B 2	9126 A 3 9128 D 3 9129 C 4 9130 C 3 9132 C 3 9134 B 2 9197 C 1 9199 A 2			
		~	i	E	CO 4 TUNE	1 ER BOARD	/ Compo	2 nent sid	e view /	3		4		5			
				$\langle A \rangle$	>					C>	•	$\langle B \rangle$					
	es en	Α	A	75 OF	HM C			00:0			5106o		5105×	3177)X			Α
			-			181						A S MW			417		
		В	В			1619		3120	6M 050		9110	9107 9105		3174		1>	В
		С	С			2184 9151 3151	J / 3143	5144		vco 31-11		9129	2178 2179 9123 5171				C
			·				5148	Abt iF 5142	2148	5150	8010	D 081.74		98 50 50 50 50 50 50 50 50 50 50 50 50 50			
		D	D			A 2 Percentino de la composición del composición de la composición del composición de la composición del composición de la composición del composición de la composición del composición del composición del composición del composi	2141		27 69	2, 2	164 — 1750 165 — [340)	1815 0122	STEELD B123			D
								8.		事)(章) 31 <u>-</u> 31					1173-		
		Ε	E										4. S3		8018 MIDI		Ε
K C				:	x for L	-band version V version on SA version on	ly	<	4>		3>		2	2SA JC 2SC	C C E		
	\$1.00 (M) at 1.14					1		2		3		4		5			

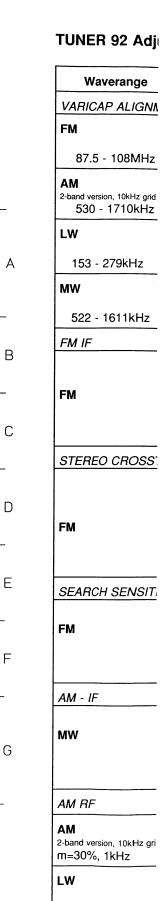




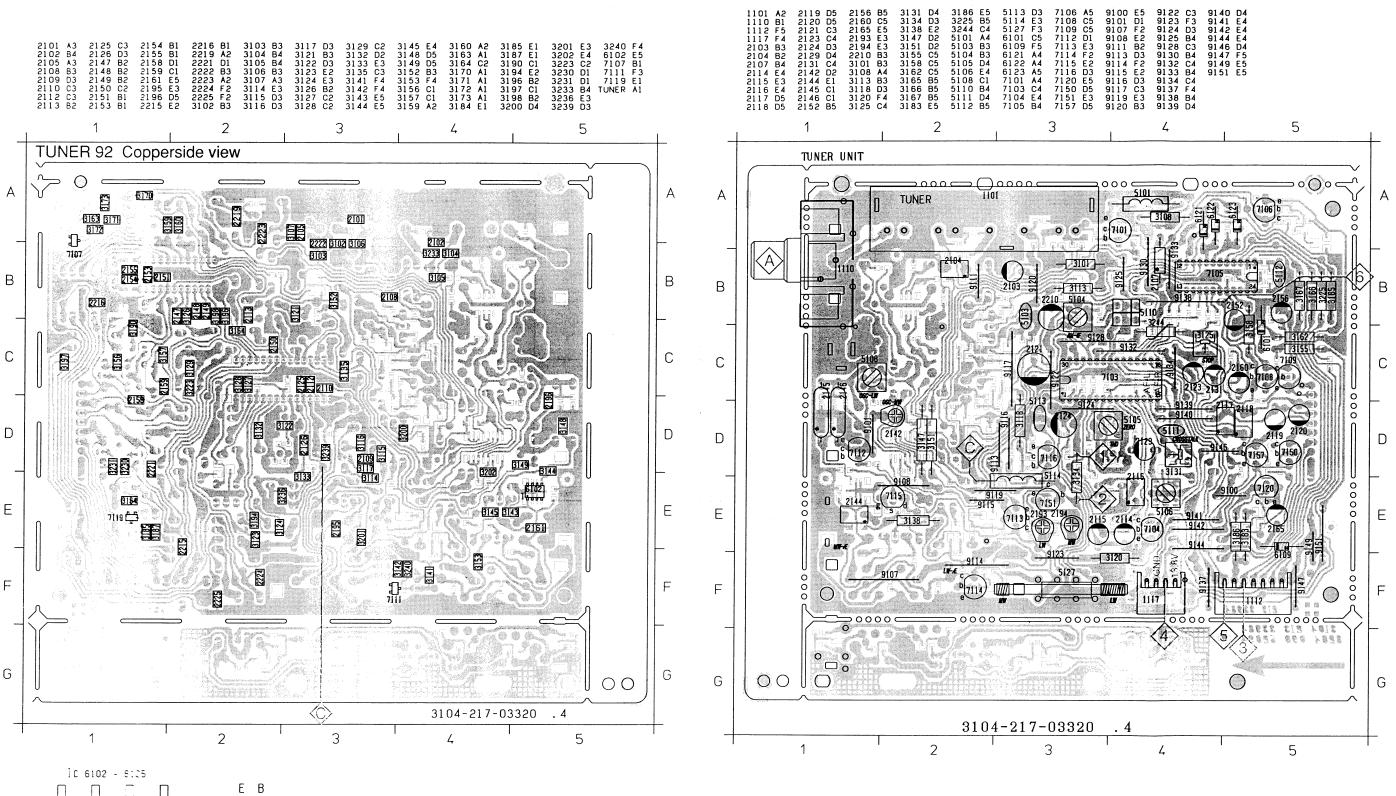


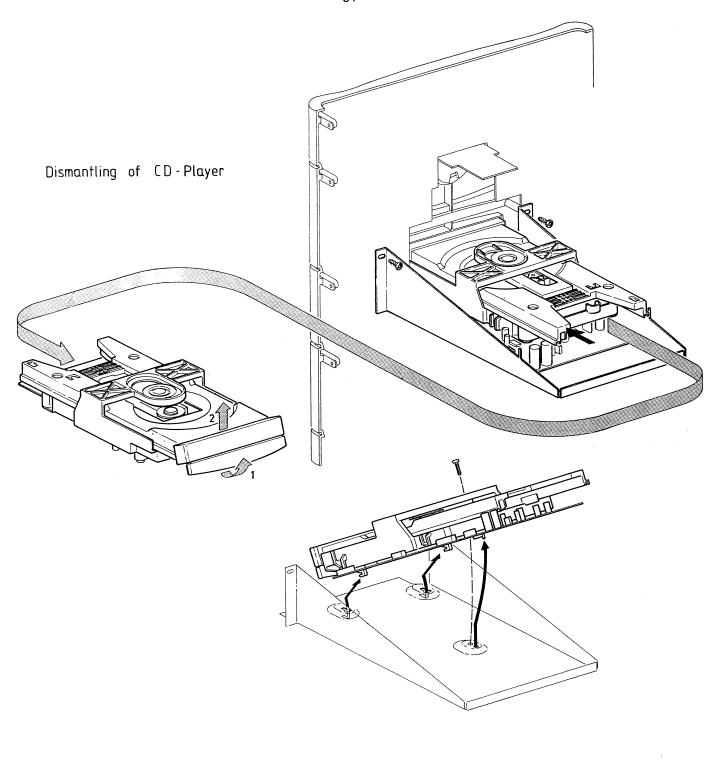
TUNER 92 Adjustment table (FM, MW - and FM, MW, LW - versions with AM ferrite antenna)

Waverange	erange Input frequency		Set tuned to	Adjust	Output	Scope / Voltmeter		
VARICAP ALIGNME	ENT							
FM			108 MHz	check		79V		
87.5 - 108MHz			87.5MHz	check		1.32V		
АМ			1710kHz	5108	1	8.5V ± 0.1V		
2-band version, 10kHz grid 530 - 1710kHz			530kHz	check	6	1V ± 0.3V		
LW			279kHz	5108		8.5V ± 0.1V		
153 - 279kHz			153kHz	check		1V ± 0.1V		
MW			1611kHz	2142		8.5V ± 0.1V		
522 - 1611kHz			522kHz	check		1.1V ± 0.3V		
FM IF					I	1		
FM	98 MHz, 1mV mod = 1kHz Δf = 75kHz	A	98MHz	5105	1 2	0V ± 20mV		
STEREO CROSSTA	LK			1,	I			
	98 MHz, 1mV			check	3	low < 1V		
FM	90% Left +9% pilot	A	98MHz	3131	4	Right channel minimum		
SEARCH SENSITIVI	ITY					I		
FM	98 MHz, 15μV mod = 1kHz Δf = 75kHz	A	98MHz	3125	5	Switches just from High to Low		
AM - IF								
MW	1494kHz Δf = 10kHz as low as possible	100nF	1494kHz	5104	7	symmetrical and max height		
AM RF	1			L				
АМ	560kHz		560kHz	5107				
2-band version, 10kHz grid m=30%, 1kHz	1600kHz		1600kHz	2141				
LW	155kHz	$\langle B \rangle$	155kHz	5127 LW	$\left\langle \begin{array}{c} \\ \\ \\ \end{array} \right\rangle$.		
m=30%, 1kHZ	270kHz	5	270kHz	2193	\\ \	MAX.		
MW	558kHz		558kHz	5127 MW		*		
m=30%, 1kHz	1494kHz		1494kHz	2194				
	L					 		

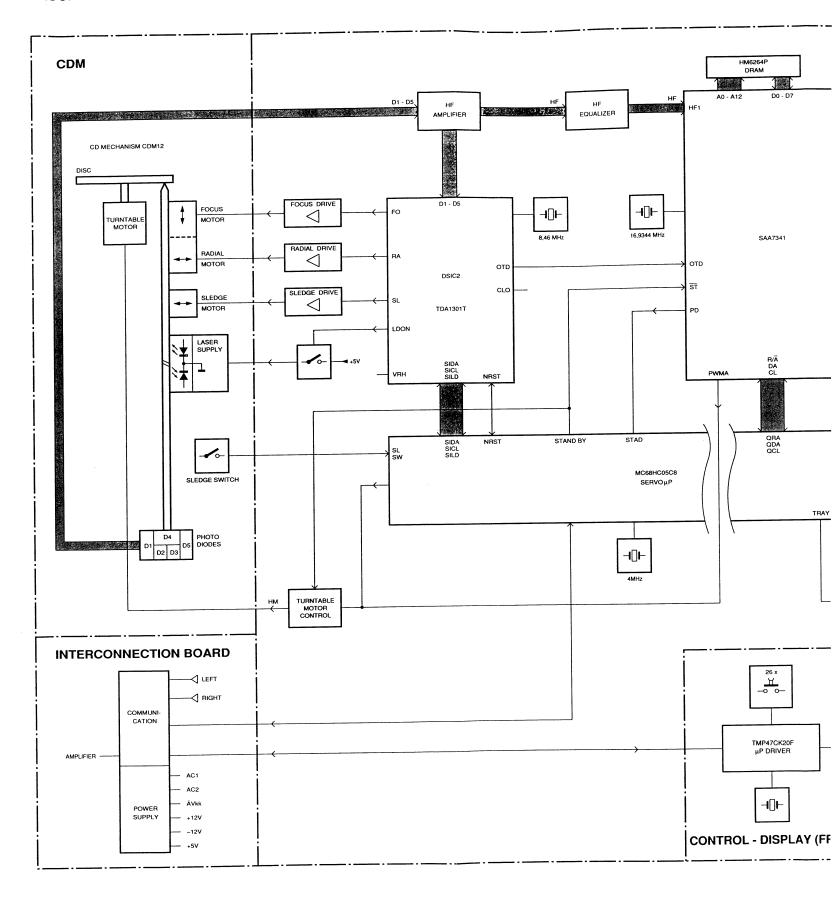


m=30%, 1kHZ MW m=30%, 1kHz repeat

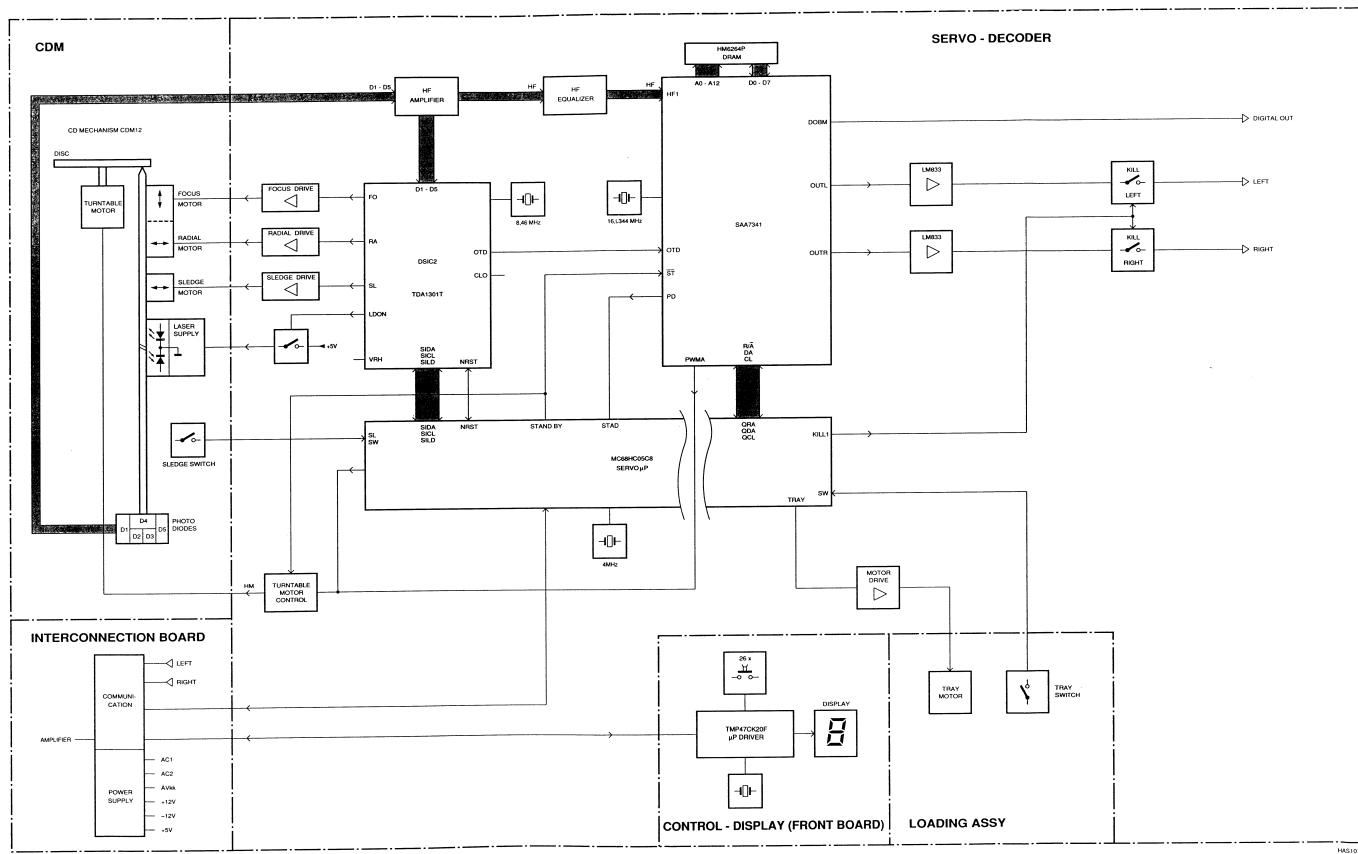


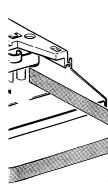


BLOCK DIAGRAM



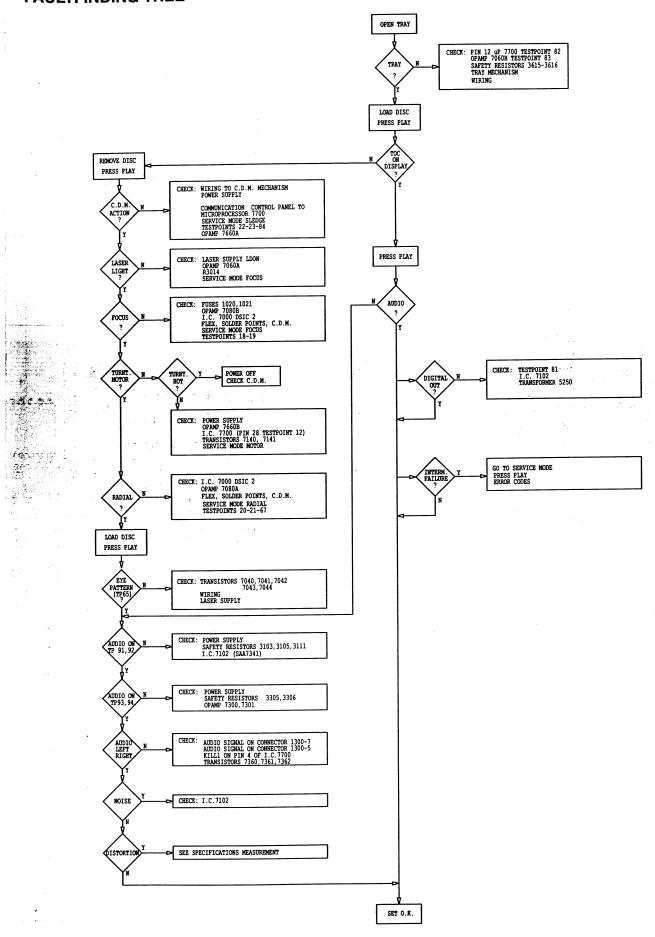
BLOCK DIAGRAM





HAS1079 9216

FAULTFINDING TREE



ABBREVIATIONS

CFB

A0-A12 : Address outputs to external RAM

AM* : Additional mute

: Data slicer feedback output to capacitor: Microprocessor interface clock input

CL : Microprocess
CLO : Clock output

D0-D7 : Data inputs/outputs to external RAM

D1-D4 : Central diode signal input

DA : Microprocessor interface data input/output line
DE1L : Pin 1 for external de-emphasis capacitor and resistor

DE1R : Pin 1 for external de-emphasis capacitor and resistor
DE2L : Pin 2 for external de-emphasis capacitor and resistor
DE2R : Pin 2 for external de-emphasis capacitor and resistor

DEEM : Output for external de-emphasis switches

DOBM : Digital audio output

FO : Focus actuator output

HFD : High frequency detector

HFI* : Inverting data slicer input

HFI : Non-inverting data slicer input

HM : Motor control signal

IREF : Current reference output

KO* : Kill out

KTC : Kill time capacitor connection

LDON : Laser drive on

MACC : Motor accelerate signal

MBRA : Motor brake signal

MHAL : Hall effect detector for motor

NRST : Reset input
OC : VCO control
OTD : Off track detector
OUTL : Left channel output
OUTR : Right channel output
PD : Phase detector

PWMA : Pulse width modulated motor control acceleration

PWMB : Pulse width modulated motor brake signal

: Request/acknowledge R/A SD1-5 : Photodiode signals SICL : Serial interface clock : Serial interface data SIDA SILD : Serial interface load : Sledge output SL ST* : Standby mode TS1-TS2 : Test input

VddA : Power supply analog part VddD : Power supply digital part

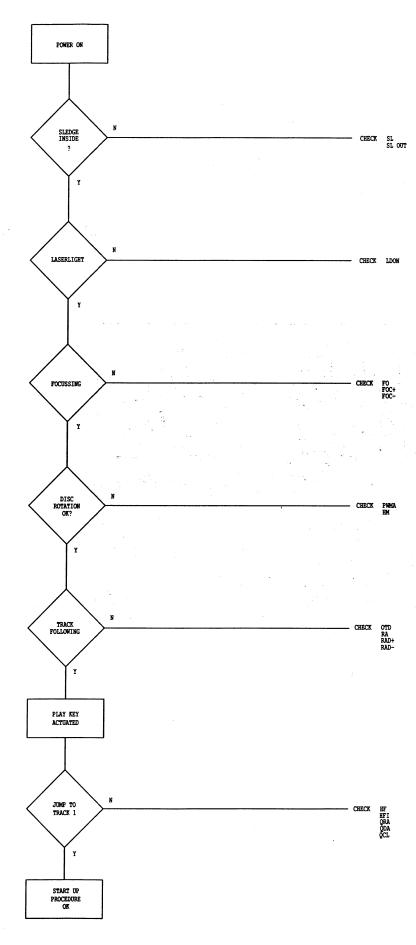
VRH : Reference input for A/D converter
VRL : Reference input for A/D converter

VssA : Ground analog part
VssD : Ground digital part
WE : Write enable

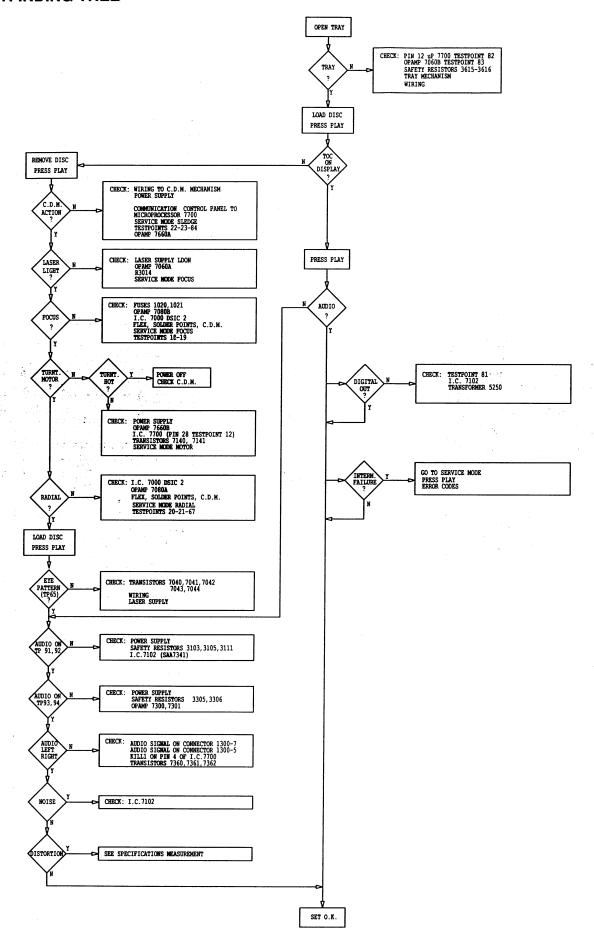
XIN : Crystal oscillator input
XOUT : Output to clock crystal
XTLI : Oscillator input
XTLO : Oscillator output
XTLR : Oscillator reference

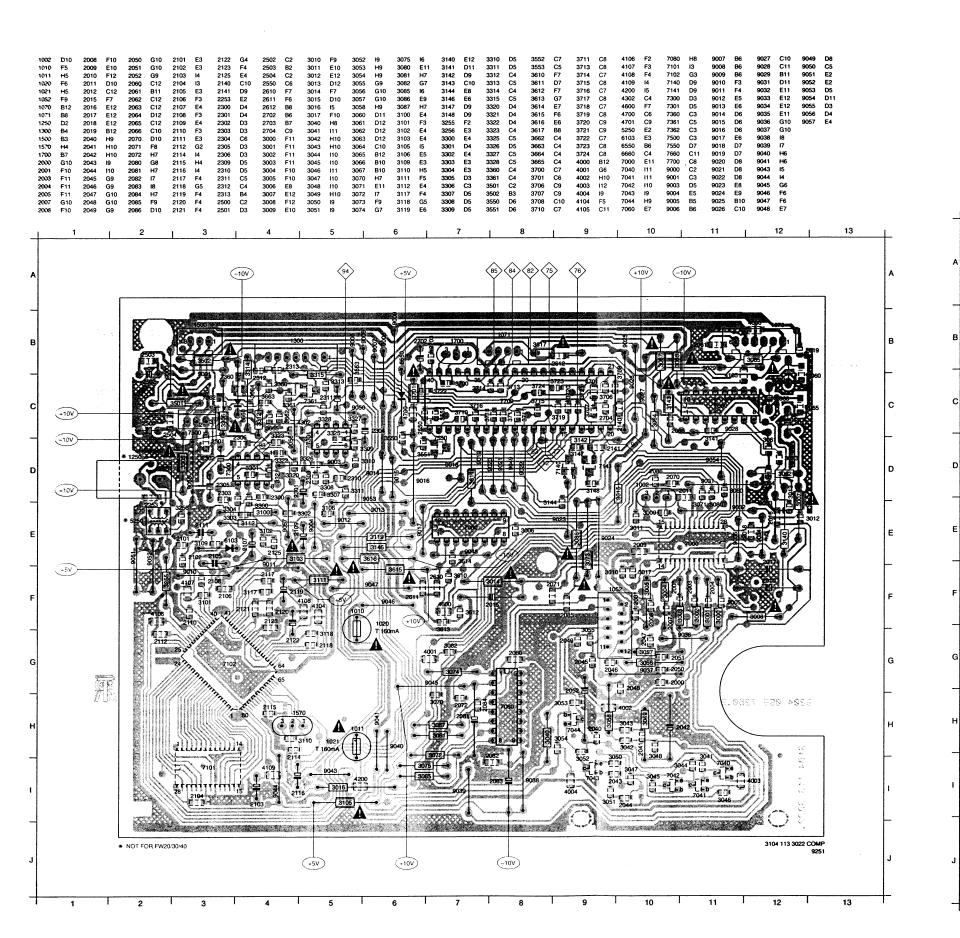
^{*} log. 0-active !

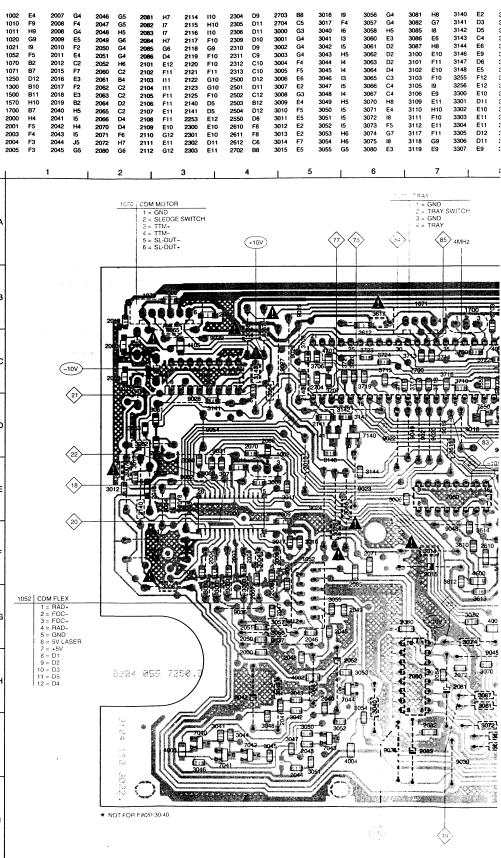
START-UP PROCEDURE

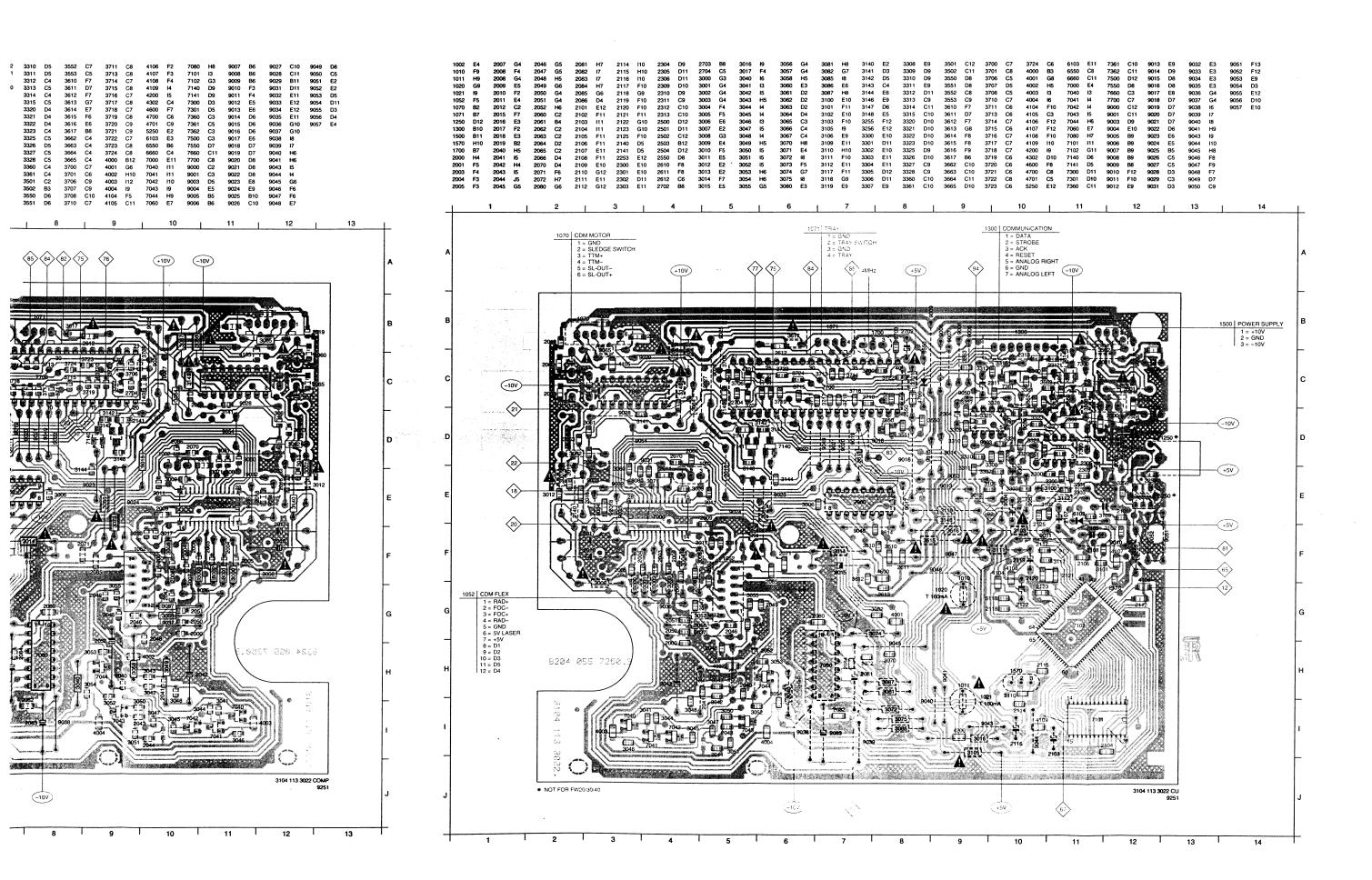


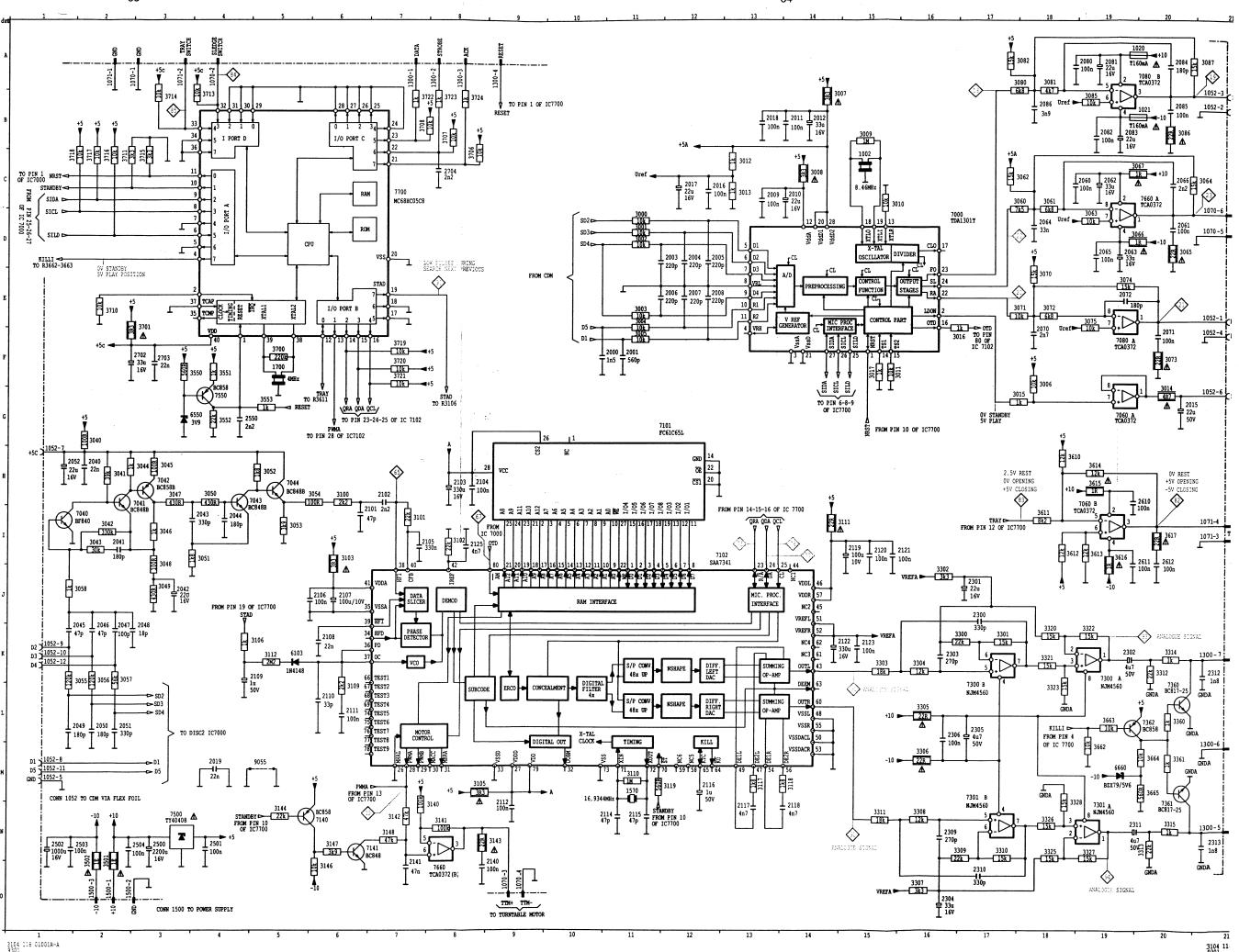
FAULTFINDING TREE



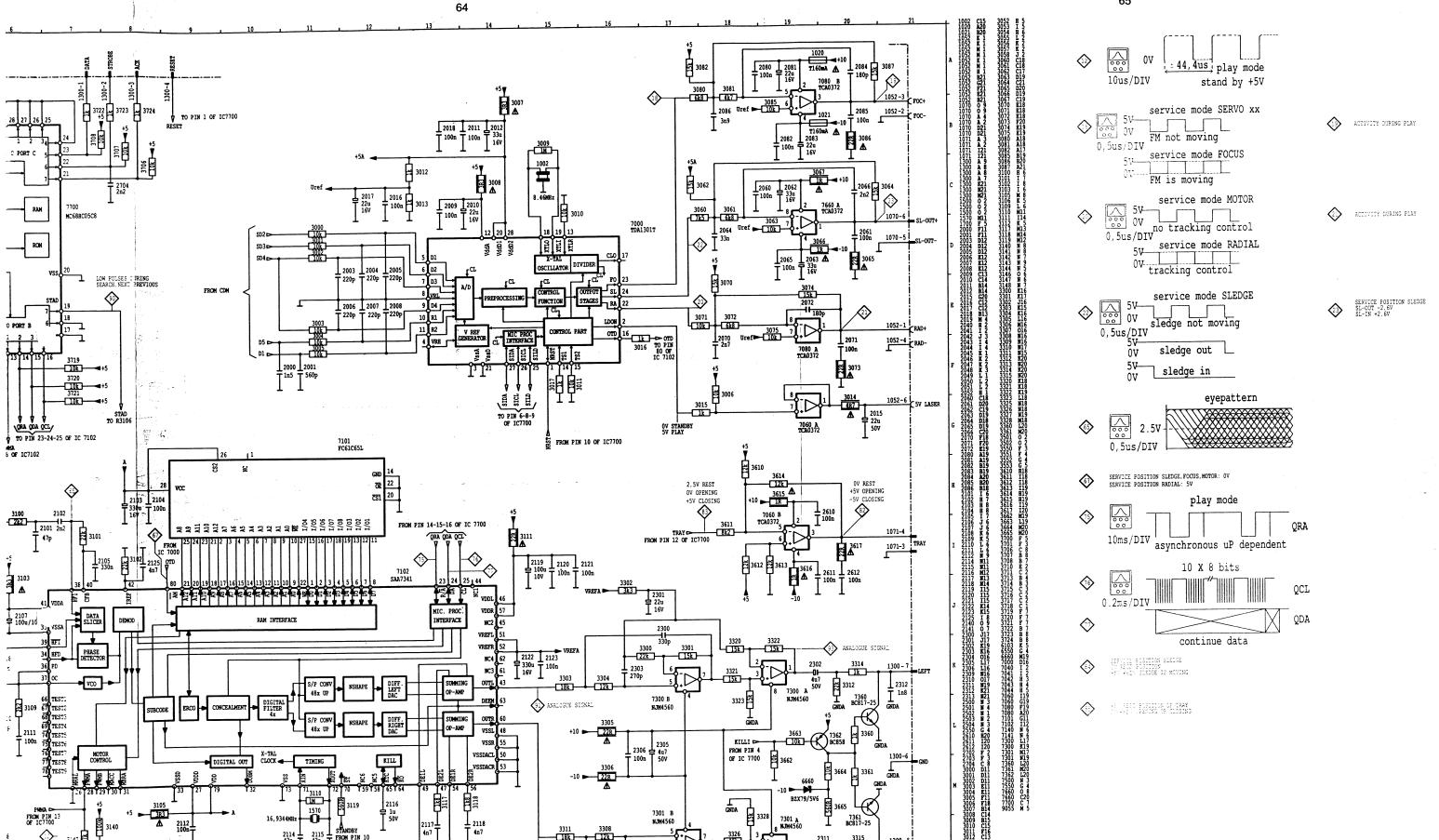












③

ANALOGUE SIGNAL

3104 118 01001S-A 9301

③

ANALOGUE SIGNAL

3307 VREFA 3k3

3143 A

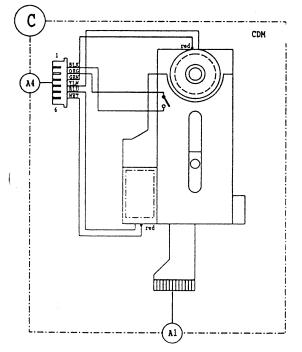
7660 TCA0372 (B) 2140 100n

WIRING DIAGRAM CD-PART

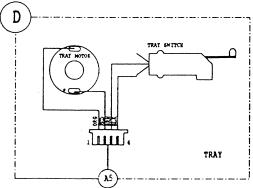
CD MECHANISM

4822 528 81464
4822 528 81465
4822 325 60379
4822 276 13222
4822 444 60816
4822 325 80511
4822 444 50679
4822 358 31168
4822 691 30278
4822 325 50215
4822 402 61412
4822 464 50895
4822 444 50678
4822 361 21492

Note: Only the mentioned parts are normal service parts.

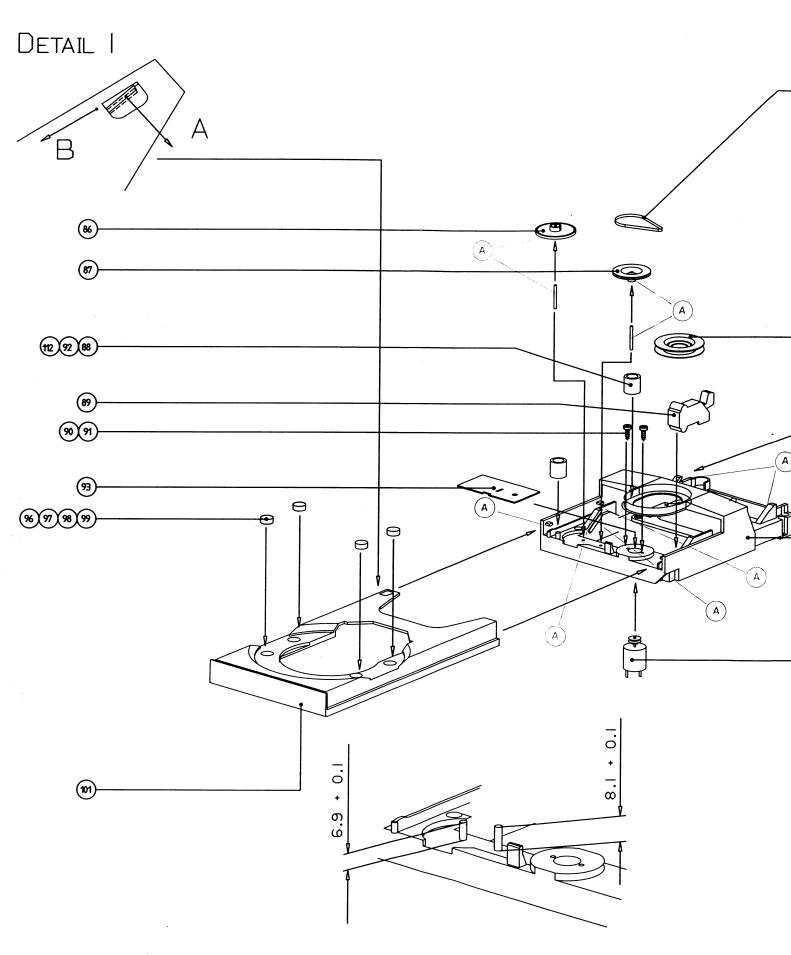


SERVO

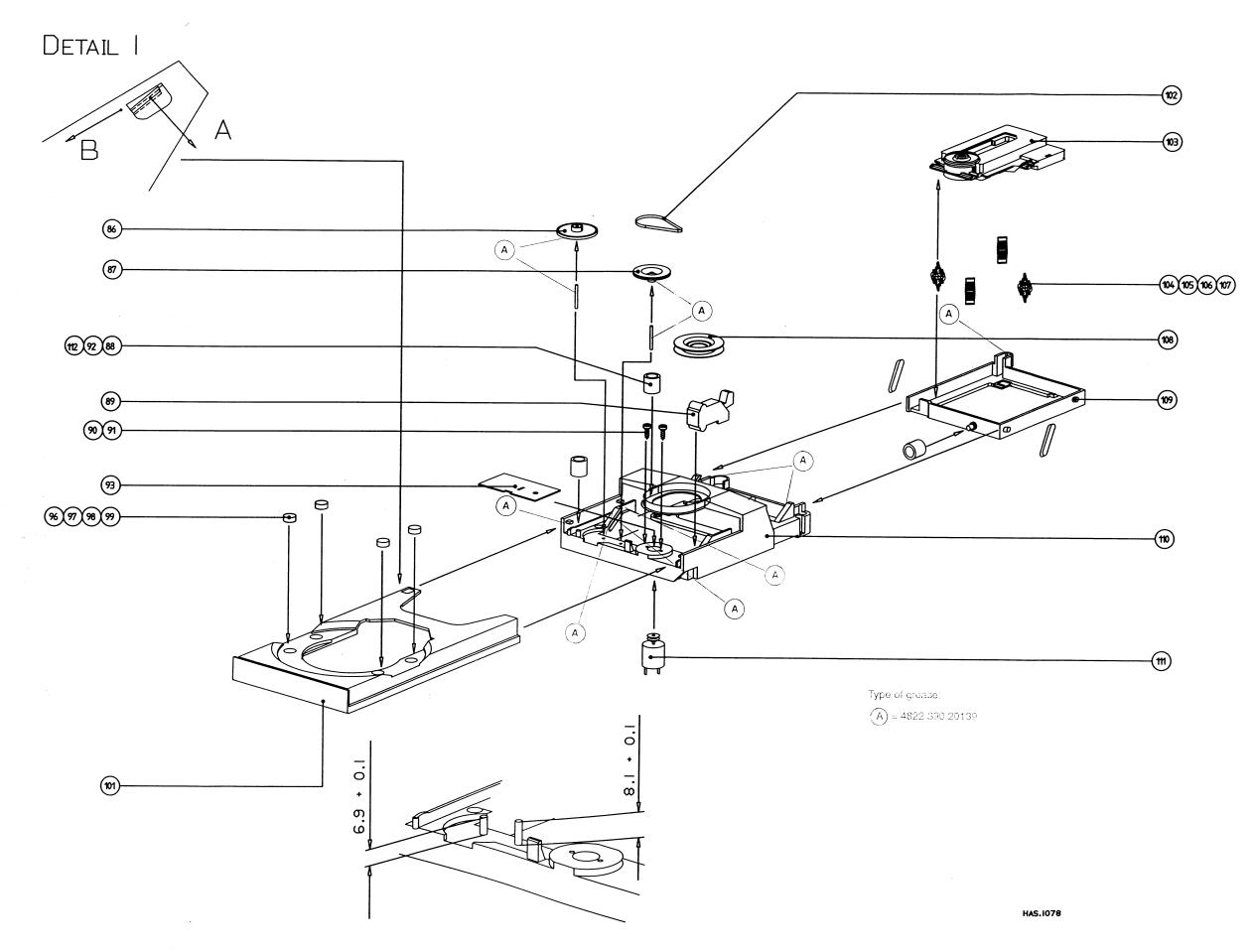




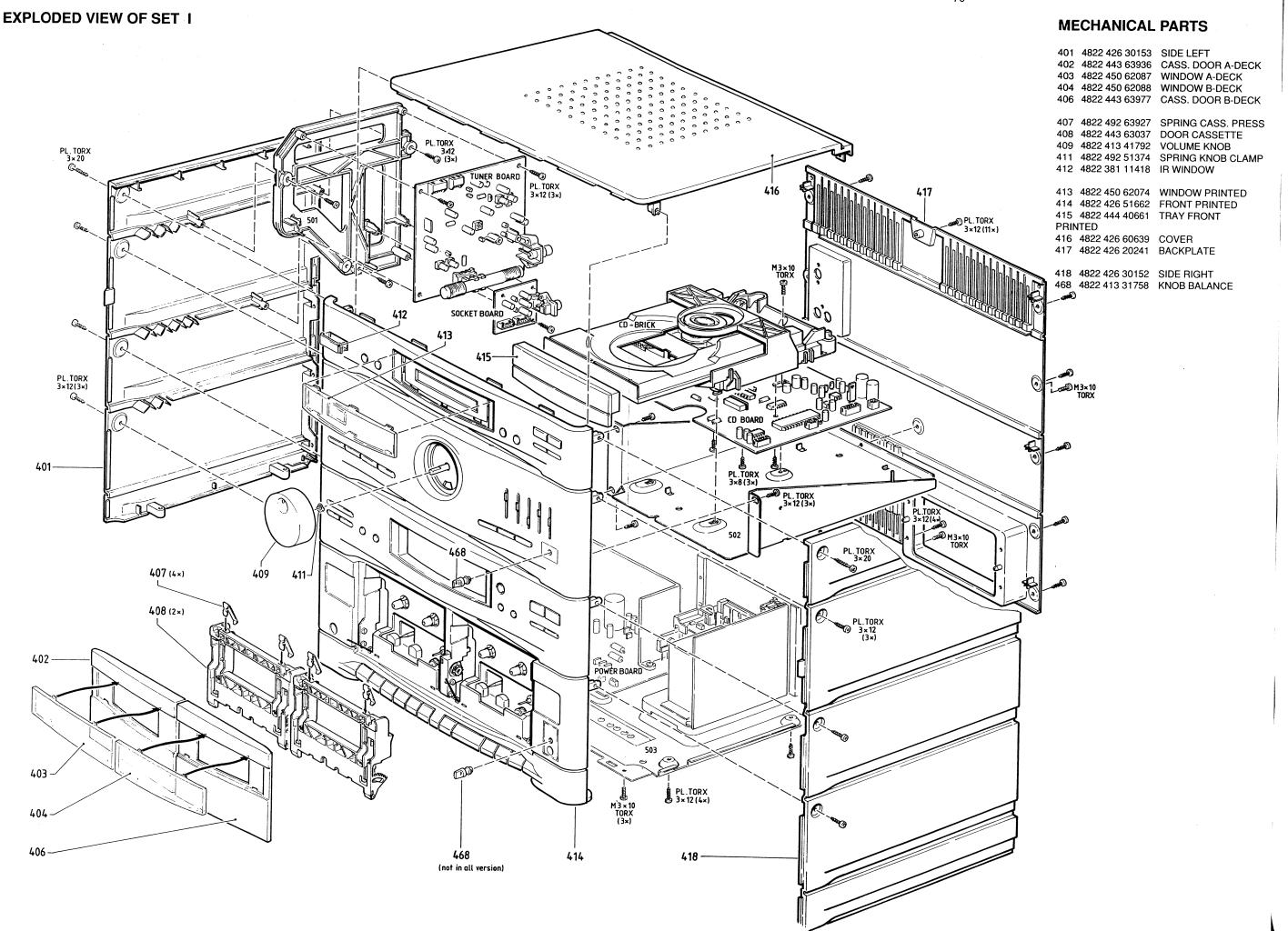
CD EXPLODED VIEW



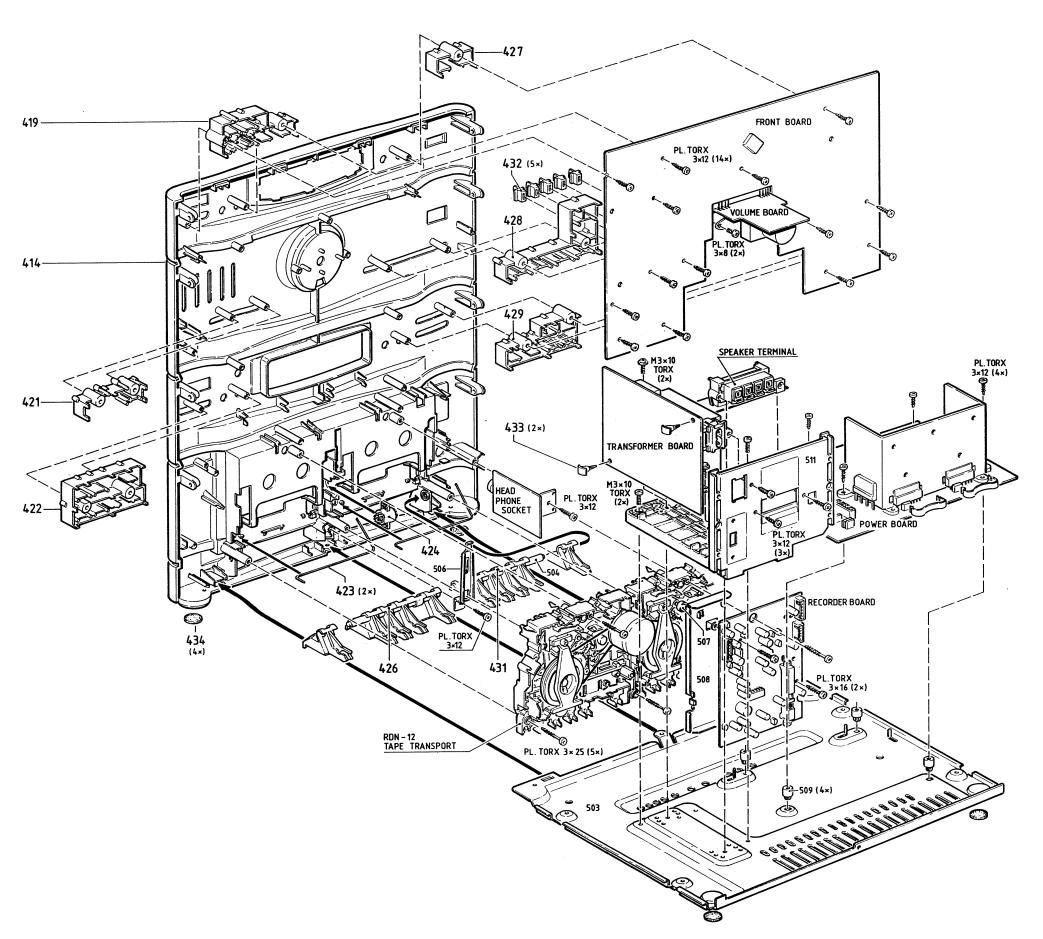
CD EXPLODED VIEW



mal service parts.



EXPLODED VIEW OF SET II



MECHANICAL PARTS

414	4822 426 51662	FRONT PRINTED
418	4822 426 30152	SIDE RIGHT
419	4822 410 62618	KNOB PRESET UP/DOWN
421	4822 410 62722	KNOB HSD+DOLBY+CROME
422	4822 410 62626	KNOB CD RIGHT
423	4822 429 42595	SPRING CASS. COMPARTMENT
424	4822 529 10287	DAMPER
426	4822 410 62619	BUTTON SET
427	4822 410 62623	KNOB AUTOPROGRAM
428	4822 410 62617	KNOB SELECTOR+POWER
429	4822 410 62724	KNOB CD LEFT
431	4822 410 62621	BUTTON SET
432	4822 411 61929	KNOB EQUALIZER
433	4822 466 93148	SPACER
434	4822 462 40683	RUBBER FOOT

FRONT BOARD

MISCELLANEOUS		DIODE	S				
1408 4822 267 30631	CINCH SOCKET	6422	4822 130 30621	1N4148			
1410 4822 267 40659	HEADPHONE SOCKET		4822 130 30621	1N4148			
1415 4822 130 91245	FTD-11894		4822 130 30621	1N4148			
1416 4822 134 40965	LAMP INC. 12V 150mA	6425	4822 130 30621	1N4148			
1417 4822 134 40965	LAMP INC. 12V 150mA	6427	4822 130 34174	BZX79-C	C4V7		
1420 4822 276 13114	TACT SWITCH	6428	4822 130 34197	BZX79-C	C12 (UAV	N)	
1421 4822 276 13114	TACT SWITCH		4822 130 34174	BZX79-0	•	,	
1422 4822 276 13114	TACT SWITCH		4822 130 82021	LTL3070			
1423 4822 276 13114	TACT SWITCH		4822 130 30861	BZX79-C			
1424 4822 276 13114	TACT SWITCH	6453	4822 130 30621	1N4148			
1425 4822 276 13114	TACT SWITCH	6455	4822 130 30621	1N4148			
1426 4822 276 13114	TACT SWITCH		4822 130 30621	1N4148			
1427 4822 276 13114	TACT SWITCH						
1428 4822 276 13114	TACT SWITCH	TRANS	ISTORS				
1429 4822 276 13114	TACT SWITCH	-					
1430 4822 276 13114	TACT SWITCH	7406	4822 130 40941	BC558			
1431 4822 276 13114	TACT SWITCH		4822 130 40938	BC548			
1432 4822 276 13114	TACT SWITCH	7409	4822 130 41344	BC337-4	10		
1433 4822 276 13114	TACT SWITCH	7410	4822 130 41344	BC337-4	10		
1434 4822 276 13114	TACT SWITCH	7411	4822 130 41344	BC337-4	10		
1435 4822 276 13114	TACT SWITCH	7412	4822 130 41344	BC337-4	10		
1436 4822 276 13114	TACT SWITCH	7413	4822 130 40938	BC548			
1437 4822 276 13114	TACT SWITCH	7421	4822 130 44196	BC548C			
1438 4822 276 13114	TACT SWITCH	7423	4822 130 40941	BC558			
1439 4822 276 13114	TACT SWITCH	7424	4822 130 41327	BC327-4	10		
1440 4822 276 13114	TACT SWITCH	7426	4822 130 40941	BC558			
1442 4822 276 13114	TACT SWITCH	7427	4822 130 40938	BC548			
1443 4822 276 13114	TACT SWITCH	7430	4822 130 40938	BC548			
1444 4822 276 13114	TACT SWITCH	7445	5322 130 44779	BC338-4	10		
1445 4822 276 13114	TACT SWITCH	7446	5322 130 44779	BC338-4	10		
1446 4822 276 13114	TACT SWITCH	7447	4822 130 44246	BC549C			
1447 4822 276 13114	TACT SWITCH	7448	4822 130 44246	BC549C			
1448 4822 276 13114	TACT SWITCH						
1475 4822 276 13114	TACT SWITCH	INTEG	RATED CIRCUITS				
DIODES					*******		
		_ 7403	4822 209 83274	NJM456	0D		
			4822 209 83274	NJM456			
6401 4822 130 30621	1N4148		4822 209 32392	TMP87P			
6402 4822 130 30621	1N4148		4822 209 31508	ST24C0			
6403 4822 130 30621	1N4148	7419	5322 209 10421	HEF409	4BP		
6404 4822 130 30621	1N4148	7.00	E000 000 40401	UEE 400	4DD		
6405 4822 130 30621	1N4148		5322 209 10421	HEF409			
6406 4922 120 20621	1N/11/8		4822 214 52009 4822 209 80891	GP1U58 MC7805			
6406 4822 130 30621 6407 4822 130 30621	1N4148 1N4148	1425	TULL LU3 00031	IVIO / 003	01		
6408 4822 130 30621	1N4148	COILS					
6409 4822 130 30621	1N4148	33.20					
6410 4822 130 30621	1N4148						
		5401	5322 242 73697	CERAM.	.RES. 8N	1Hz	
6411 4822 130 30621	1N4148	5402	4822 157 50961	22μΗ			
6412 4822 130 30621	1N4148	5405	4822 157 62552	COIL 2,2	2μH		
6413 4822 130 30621	1N4148						
6414 4822 130 30621	1N4148	RESIST	rors				
6415 4822 130 30621	1N4148	·····					
6416 4822 130 30621	1N4148	3401	4822 116 52297	68k	5%	0,5W	
6418 4822 130 30621	1N4148	3402	4822 116 52297	68k	5%	0,5W	
6419 4822 130 30621	1N4148		4822 116 52264	27k	5%	0,5W	
6420 4822 130 30621	1N4148		4822 116 52264	27k	5%	0,5W	
6421 4822 130 30621	1N4148	3405	4822 116 52284	47k	5%	0,5 W	

3406 4822 116 52284 3407 4822 116 52269 3408 4822 116 52269

3409 4822 116 52291

3410 4822 116 52291

3411 4822 116 52243 3412 4822 116 52243

3413 4822 116 52234

3414 4822 116 52234

3415 4822 116 52233

3416 4822 116 52233

3417 4822 116 52284

3418 4822 116 52284

3419 4822 116 52284

3420 4822 116 52284

3421 4822 116 52284

3422 4822 116 52284

3423 4822 116 52284

3424 4822 116 52284

3425 4822 116 52224

3426 4822 116 52224 3427 4822 116 52257

3428 4822 116 52257

3431 4822 116 52263

3432 4822 116 52263

3433 4822 116 52276

3434 4822 116 52276

3435 4822 050 11002

3436 4822 050 11002

3437 4822 116 52251

3438 4822 116 52251

3439 4822 116 52224

3440 4822 116 52224

3441 4822 116 52224

3442 4822 116 52224

3443 4822 116 52291

3444 4822 116 52291

3445 4822 051 10333

3446 4822 051 10333

3447 4822 051 10333

3448 4822 051 10333 3449 4822 116 52264

3450 4822 116 52264

3451 4822 051 10333

3452 4822 051 10333

3455 4822 051 10333

3456 4822 051 10333

3457 4822 116 52264

3458 4822 116 52264

3459 4822 051 10333

3460 4822 051 10333

3461 4822 051 10333

3462 4822 051 10333

3463 4822 116 52285 3464 4822 116 52285

3465 4822 116 52283

3466 4822 116 52283

3469 4822 116 52283

3470 4822 116 52283

3471 4822 116 52256

RESISTORS

				RESIS	TORS					
										
47k	5%	0,5W			4822 116 52		2k2	5%	0,16W	
3k3	5%	0,5W		3473	4822 116 52	2257	22k	5%	0,5W	
3k3		0,5W		3474	4822 116 52	2257	22k	5%	0,5W	
56k		0,5W			4822 116 52		470R	5%	0,5W	
56k	5%	0,5 W		3476	4822 116 52	2224	470R	5%	0,5W	
1k5		0,16W			4822 116 52		2k2	5%	0,16W	
1k5		0,16W			4822 116 52		4k7	5%	0,5W	
100k		0,5W			4822 101 21					
100k		0,5W			4822 102 10					
10k	5%	0,5W		3481	4822 101 21	102 F	Pot 2x 50	k		
10k		0,5W			4822 101 21					
47k		0,5W			4822 101 21					
47k		0,5W			4822 101 21					
47k		0,5W			4822 101 21					
47k	5%	0,5W		3486	4822 050 11	002	1k	5%	0,2W	
47k	5%	0,5W			4822 050 11		1k	5%	0,2W	
47k	5%	0,5W			4822 050 11		1k	5%	0,2W	
47k	5%	0,5W			4822 050 11		1k	5%	0,2W	
47k 470R	5% 5%	0,5W 0,5W			4822 116 52		220R	5%	0,16W	
470H	5%	U,SVV		3491	4822 116 52	233	10k	5%	0,5W	
470R	5%	0,5W		3492	4822 116 52	228	680R	5%	0,5W	
22k	5%	0,5W			4822 116 52		220R	5%	0,16W	
22k	5%	0,5W			4822 116 52		220R	5%	0,16W	
2k7	5%	0,5W			4822 116 52		220R	5%	0,16W	
2k7	5%	0,5W		3496	4822 116 52	215	220R	5%	0,16W	
3k9	5%	0,5W			4822 116 52		22k	5%	0,5W	
3k9	5%	0,5W			4822 116 52		10k	5%	0,5W	
1k	5%	0,2W			4822 116 52		220R	5%	0,16W	
1k	5%	0,2W			4822 116 522		270R	5%	0,5W	
18k	5%	0,5W		3501	4822 116 522	269	3k3	5%	0,5W	
18k	5%	0,5W			4822 050 110		1k	5%	0,2W	
470R	5%	0,5W			4822 050 110		1k	5%	0,2W	
470R	5%	0,5W			4822 116 522		3k3	5%	0,5W	
470R	5%	0,5W			4822 116 522		18k	5%	0,5W	
470R	5%	0,5W		3506	4822 116 52 ⁻¹	1/5	100R	5%	0,5W	
56k	5%	0,5W			4822 116 522		270R	5%	0,5W	
56k	5%	0,5W			4822 116 522		270R	5% 5%	0,5W	
33k 33k	2% 2%	0,25W 0,25W			4822 116 522		10k	5%	0,5W	
33k	2% 2%	0,25W			4822 116 522		10k	5%	0,5W	
338	270	0,23		3326	4822 116 522	220	680R	5%	0,5W	
33k	2%	0,25W			4822 116 523		82k	5%	0,5W	
27k	5%	0,5W			4822 116 522		10k	5%	0,5W	
27k	5%	0,5W			4822 116 522		4k7	5%	0,5W	
33k	2%	0,25W			4822 116 522		4k7	5%	0,5 W	
33k	2%	0,25W		3533	4822 116 522	283	4k7	5%	0,5 W	
33k	2%	0,25W			4822 116 522		4k7	5%	0,5 W	
33k	2%	0,25W		3535	4822 116 522	283	4k7	5%	0,5W	
27k	5%	0,5W			4822 116 522		4k7	5%	0,5W	
27k	5%	0,5W			4822 116 522		270R	5%	0,5W	
33k	2%	0,25W		3538	4822 116 522	217	270R	5%	0,5W	
33k	2%	0,25W			4822 116 522		270R	5%	0,5W	
33k	2%	0,25W			4822 116 522		220k	5%	0,5W	
33k	2%	0,25W			4822 050 110		1k	5%	0,2W	
470k	5%	0,5W			4822 116 522		10k	5%	0,5W	
470k	5%	0,5W		3555	4822 116 522	233	10k	5%	0,5W	
4k7	5%	0,5W		3556	4822 116 522	233	10k	5%	0,5W	
4k7	5%	0,5W		3557	4822 116 522	233	10k	5%	0,5W	
4k7	5%	0,5W			4822 116 522		2k2	5%	0,16W	
4k7	5%	0,5W			4822 116 522		2k2	5%	0,16W	
2k2	5%	0,16W		3560	4822 116 522	283	4k7	5%	0,5W	

RESISTORS	CAPACITORS
-----------	------------

	4822 050 11002	1k	5%	0,2W	2401 4822 124 40239 0,4	7μF 20%	63V
2562		10k	5%	0,5W	2402 4822 124 40239 0,4	•	63V
	4822 116 52233		5%	0,3 V V	2402 4822 124 40239 0,4	•	63V
	4822 050 11002	1k		•			
	4822 050 11002	1k	5%	0,2W	2404 4822 124 40239 0,4	•	63V
3568	4822 116 52233	10k	5%	0,5W	2405 4822 124 40239 0,4	7μF 20%	63V
3569	4822 116 52233	10k	5%	0,5W	2406 4822 124 40239 0,4	ηF 20%	63V
3570	4822 116 52233	10k	5%	0,5W	2407 4822 124 40239 0,4	ηF 20%	63V
3571	4822 116 52233	10k	5%	0,5W	2408 4822 124 40239 0,4	ηF 20%	63V
	4822 116 52249	1k8	5%	0,16W	2409 4822 122 33848 4	7pF 5%	50V
	4822 116 52175	100R	5%	0,5W		7pF 5%	50V
0000	1022 110 02170		0,0	5,5		F . •	
3587	4822 116 52175	100R	5%	0,5W	2411 4822 122 33848 4	7pF 5%	50V
3589	4822 050 11002	1k	5%	0,2W	2412 4822 122 33848 4	7pF 5%	50V
3590	4822 116 52257	22k	5%	0,5W	2413 4822 122 33848 4	7pF 5%	50V
3591	4822 050 11002	1k	5%	0,2W		7pF 5%	50V
	4822 116 52257	22k	5%	0,5W	2415 4822 122 33848 4	7pF 5%	50V
						•	
3593	4822 05 0 11002	1k	5%	0,2W		⁷ pF 5%	50V
3594	4822 116 52224	470R	5%	0,5W	2417 4822 126 12702 27)pF 10%	50V
3595	4822 116 52224	470R	5%	0,5W	2418 4822 126 12702 27)pF 10%	50V
3596	4822 116 52224	470R	5%	0,5W	2419 4822 122 33195 10	pF 10%	50V
3597	4822 116 52224	470R	5%	0,5W	2420 4822 122 33195 10	pF 10%	50V
						•	
3598	4822 116 52256	2k2	5%	0,16W	2421 4822 122 33848 4	pF 5%	50V
3601	4822 116 52224	470R	5%	0,5W	2422 4822 122 33848 4	7pF 5%	50V
3602	4822 116 52224	470R	5%	0,5W	2425 4822 122 33195 10	pF 10%	50V
3603	4822 050 11002	1k	5%	0,2W	2426 4822 122 33195 10	pF 10%	50V
3604	4822 050 11002	1k	5%	0,2W	2427 4822 124 40242	μF 20%	63V
						•	
3605	4822 116 52283	4k7	5%	0,5W		μF 20%	63V
3606	4822 116 52283	4k7	5%	0,5W	2429 4822 126 12702 27)pF 10%	50V
3607	4822 116 52256	2k2	5%	0,16W	2430 4822 126 12702 27)pF 10%	50V
3608	4822 116 52256	2k2	5%	0,16W	2431 4822 122 33197	nF 10%	50V
3609	4822 116 52296	6k8	5%	0,5W	2432 4822 122 33197	nF 10%	50V
3610	4822 116 52215	220R	5%	0,16W	2433 4822 122 33197	nF 10%	50V
	4822 116 52256	2k2	5%	0,16W		nF 10%	50V
							30 v
	4822 050 11002	1k	5%	0,2W			
	4822 116 52224	470R	5%	0,5W		'nF 20%	
3616	4822 116 52215	220R	5%	0,16W	2437 4822 126 11714 4,	'nF 20%	
3617	4822 116 52228	680R	5%	0,5W	2438 4822 126 11714 4,	nF 20%	
	4822 116 52233	10k	5%	0,5W	•	nF 50V	
	4822 116 52233	10k	5%	0,5W		2nF 50V	
	4822 116 52224	470R	5%	0,5W		2nF 50V	
		470R 470R		•			
3622	4822 116 52224						
		4/0/1	5%	0,5W	2442 4822 126 11585 2	nF 50V	
3623	4822 116 52224			·		2nF 50V	100V
	4822 116 52224 4822 116 52224	470R	5%	0,5W	2443 4822 121 43526 4		100V 100V
3624	4822 116 52224	470R 470R	5% 5%	0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4	2nF 50V 7nF 5% 7nF 5%	100V
3624 3649	4822 116 52224 4822 050 22205	470R 470R 2M2	5% 5% 1%	0,5W 0,5W 0,6W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 22	2nF 50V 7nF 5% 7nF 5% 9nF 5%	100V 63V
3624 3649 3650	4822 116 52224 4822 050 22205 4822 050 22205	470R 470R 2M2 2M2	5% 5% 1% 1%	0,5W 0,5W 0,6W 0,6W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 220 2446 4822 121 42408 220	2nF 50V 7nF 5% 7nF 5% 9nF 5% 9nF 5%	100V 63V 63V
3624 3649 3650	4822 116 52224 4822 050 22205	470R 470R 2M2	5% 5% 1%	0,5W 0,5W 0,6W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 22	2nF 50V 7nF 5% 7nF 5% 9nF 5% 9nF 5%	100V 63V
3624 3649 3650 3651	4822 116 52224 4822 050 22205 4822 050 22205	470R 470R 2M2 2M2	5% 5% 1% 1%	0,5W 0,5W 0,6W 0,6W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 220 2446 4822 121 42408 220	7nF 5% 7nF 5% 7nF 5% 9nF 5% 9pF 10%	100V 63V 63V
3624 3649 3650 3651 3652	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257	470R 470R 2M2 2M2 22k	5% 5% 1% 1% 5%	0,5W 0,5W 0,6W 0,6W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nP 10% 2nP 10%	100V 63V 63V 50V
3624 3649 3650 3651 3652 3653	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257	470R 470R 2M2 2M2 22k 22k	5% 5% 1% 1% 5%	0,5W 0,5W 0,6W 0,6W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7	2nF 50V 7nF 5% 7nF 5% 2nF 5% 2nF 5% 2nP 10% 2nP 10% 2pF 10% 2pF 20%	100V 63V 63V 50V 50V 63V
3624 3649 3650 3651 3652 3653 3654	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235	470R 470R 2M2 2M2 22k 22k 1M 1M	5% 5% 1% 1% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 220 2446 4822 121 42408 220 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nP 10% 2nP 10% 2nP 20% 2nP 20% 2nP 20%	100V 63V 63V 50V 50V 63V 63V
3624 3649 3650 3651 3652 3653 3654 3655	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224	470R 470R 2M2 2M2 22k 22k 1M 1M 470R	5% 5% 1% 1% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 100	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 10% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 20%	100V 63V 63V 50V 50V 63V 63V 16V
3624 3649 3650 3651 3652 3653 3654 3655	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235	470R 470R 2M2 2M2 22k 22k 1M 1M	5% 5% 1% 1% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 100	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nP 10% 2nP 10% 2nP 20% 2nP 20% 2nP 20%	100V 63V 63V 50V 50V 63V 63V
3624 3649 3650 3651 3652 3653 3654 3655 3660	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k	5% 5% 1% 1% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,5W 0,2W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 100 2454 4822 121 51387 100 2455 4822 121 51387 100	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 5%	100V 63V 63V 50V 50V 63V 63V 16V 16V
3624 3649 3650 3651 3652 3653 3654 3655 3660	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k	5% 5% 1% 1% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,5W 0,2W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 100 2454 4822 121 51387 100 2455 4822 121 51387 100	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 20%	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V
3624 3649 3650 3651 3652 3653 3654 3655 3660	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k	5% 5% 1% 1% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,5W 0,2W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 100 2454 4822 121 51387 100 2455 4822 121 51387 100	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 5% 7nF 5% 7nF 5%	100V 63V 63V 50V 50V 63V 63V 16V 16V
3624 3649 3650 3651 3652 3653 3654 3655 3660 3661 3662 3663	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R	5% 5% 1% 1% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 10 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 121 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,45	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 20% 7nF 5% 7nF 5% 7nF 5%	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V
3624 3649 3650 3651 3652 3653 3654 3655 3660 3661 3662 3663 3664	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 10% 7nF 20%	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 63V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3661 3662 3663 3664 3665	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52228 4822 116 52256	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,2W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 100 2453 4822 121 51387 100 2454 4822 121 51387 100 2455 4822 122 33192 21 2456 4822 122 33192 22 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2462 4822 126 11585 22	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nF 10% 2nF 20% 2	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 63V 50V 50V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3664 3665 3666	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52228 4822 116 52234	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2463 4822 126 11585 22	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nF 10% 2nF 20% 2	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 50V 50V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3664 3665 3666 3666	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52234 4822 116 52234	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,5W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2463 4822 126 11585 22 2463 4822 126 11585 22 2464 4822 124 41525 100	2nF 50V 2nF 5% 2nF 5% 2nF 5% 2nF 5% 2nF 10% 2nF 20% 2	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 50V 50V 50V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3664 3665 3666 3667 3668	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 121 51387 10 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2463 4822 126 11585 22 2463 4822 126 11585 22 2464 4822 124 41525 100 2465 4822 124 41525 100 2465 4822 124 42263 226	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 20% 7n	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 50V 50V 50V 25V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3664 3665 3666 3667 3668	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52234 4822 116 52234	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,5W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2463 4822 126 11585 22 2463 4822 126 11585 22 2464 4822 124 41525 100 2465 4822 124 41525 100 2466 4822 124 40248 10	20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 50V 50V 50V 25V 25V 63V
3624 3649 3650 3651 3652 3653 3654 3665 3660 3664 3665 3666 3667 3668	4822 116 52224 4822 050 22205 4822 050 22205 4822 116 52257 4822 116 52257 4822 116 52235 4822 116 52235 4822 116 52224 4822 050 11002 4822 050 11002 4822 116 52224 4822 116 52224 4822 116 52224 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	470R 470R 2M2 2M2 22k 22k 1M 1M 470R 1k 470R 470R 680R 2k2	5% 5% 1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,6W 0,6W 0,5W 0,5W 0,5W 0,5W 0,2W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2443 4822 121 43526 4 2444 4822 121 43526 4 2445 4822 121 42408 221 2446 4822 121 42408 221 2449 4822 122 33195 100 2450 4822 122 33195 100 2451 4822 124 40246 4,7 2452 4822 124 40246 4,7 2453 4822 121 51387 10 2454 4822 121 51387 10 2455 4822 122 33192 2 2456 4822 122 33192 2 2460 4822 124 40239 0,47 2461 4822 126 11585 22 2463 4822 126 11585 22 2463 4822 126 11585 22 2464 4822 124 41525 100 2465 4822 124 41525 100 2466 4822 124 40248 10	2nF 50V 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 5% 7nF 20% 7n	100V 63V 63V 50V 50V 63V 63V 16V 16V 50V 50V 50V 50V 50V 25V

2469	4822 124 40242	1μF	20%	63V
2470	4822 124 40242	1μF	20%	63V
2471	4822 122 33519	470pF	10%	50V
2472	4822 122 33519	470pF	10%	50V
2473	4822 124 40433	47μF	20%	25V
2475	4822 124 22263	220μF	20%	25V
2476	4822 124 41525	100μF	20%	25V
2477	4822 124 40433	47μF	20%	25V
2483	4822 122 33197	1nF	10%	50V
2484	4822 122 33197	1nF	10%	50V
2485	4822 122 33197	1nF	10%	50V
2502	4822 124 41525	100μF	20%	25V
2503	4822 124 41525	100μF	20%	25V
2504	5322 124 21643	22µF	20%	40V
2505	4822 126 11585	22nF		50V
2507	4822 126 12702	270pF	10%	50V
2510	4822 122 33848	47pF	5%	50V
2512	4822 124 40242	1μF	20%	63V
2513	4822 124 40248	10μF	20%	63V
2514	4822 126 12702	270pF	10%	50V
2552	4822 122 10466	220pF	10%	
2553	4822 122 10466	220pF	10%	
2554	4822 122 33197	1nF	10%	50V
2555	4822 122 33197	1nF	10%	50V
2556	4822 122 33195	100pF	10%	50V
2557		100pF	10%	50V
2558	5322 121 42386	100nF	5%	63V

POWER BOARD

MECHA	ANICAL PARTS		RESIS	TORS			
	4822 255 40128	CLIP TO126	3250	4822 050 11002	1k	5%	0,2W
	5322 255 40397	CLIP IC		4822 116 52233	10k	5%	0,5W
	0022 200 10007	02 10		4822 116 52233	10k	5%	0,5W
				4822 051 10333	33k	2%	0,25W
MISCE	LLANEOUS		3255	4822 050 11002	1k	5%	0,2W
				4822 050 11002	1k	5%	0,2W
		SPEAKER TERMINAL		4822 116 52233	10k	5%	0,5W
1305	4822 264 30175	SOCKET EXT. SUPPLY	3258	4822 116 52283	4k7	5%	0,5W
			3259	4822 051 10333	33k	2%	0.25W
				4822 116 52233	10k	5%	0,5W
DIODES	3						•
				4822 116 52291 4822 050 11002	56k	5%	0,5W
0050	1000 100 00070	D00D400			1k	5%	0,2W
	4822 130 82079	D3SBA20		4822 116 52283	4k7	5%	0,5W
	4822 130 30621	1N4148	3264	4822 116 52217	270R	5%	0,5W
6252	4822 130 30621	1N4148	3307	4822 116 52256	2k2	5%	0,16W
6253	4822 130 34174	BZX79-C4V7					
6254	4822 130 30621	1N4148	3308	4822 116 52256	2k2	5%	0,16W
5257	.5 100 00021			4822 050 11002	1k		
COEF	E000 400 00004	1N4000				5%	0,2W
	5322 130 30684	1N4002		4822 050 11002	1k	5%	0,2W
	5322 130 30684	1N4002		4822 050 11002	1k	5%	0,2W
	5322 130 30684	1N4002	3312	4822 050 11002	1k	5%	0,2W
6258	5322 130 30684	1N4002					
	4822 130 30621	1N4148	3313	4822 116 52256	2k2	5%	0,16W
0-00				4822 116 52256	2k2	5%	0,16W
6261	5322 130 30684	10000					
		1N4002		4822 116 52233	10k	5%	0,5W
	4822 130 30621	1N4148		4822 116 52233	10k	5%	0,5W
	4822 130 30621	1N4148	3317	4822 116 52213	180R	5%	0,5W
6352	4822 130 34278	BZX79-C6V8					
6354	4822 130 30621	1N4148	3318	4822 116 52213	180R	5%	0,5W
				4822 052 10228	2R2	5%	0,33W
1006	4822 130 83002	LED (Volume pot)		4822 052 10228	2R2	5%	0,33W
1000	4022 100 00032	LLD (Volume pot)					
				4822 052 10228	2R2	5%	0,33W
TRANSI	STORS		3322	4822 052 10228	2 R 2	5%	0,33W
			3323	4822 116 52175	100R	5%	0,5W
			3324	4822 116 52175	100R	5%	0,5W
7250	4822 130 40937	BC548B		4822 116 52175	100R	5%	0,5W
	4822 130 61236	BD234					
				4822 116 52175	100R	5%	0,5W
	4822 130 40937	BC548B	3350	4822 052 10479	47R	5%	0,3W
7254	4822 130 40937	BC548B					
7255	4822 130 44197	BC558B	3351	4822 116 52276	3k9	5%	0,5W
			3352	4822 116 52233	10k	5%	0,5W
7309	4822 130 41344	BC337-40		4822 116 52233	10k	5%	0,5W
	4822 130 41344	BC337-40		4822 116 52234	100k	5%	0,5 W
	4822 130 41344	BC337-40	3355	4822 116 52217	270R	5%	0,5W
	4822 130 41344	BC337-40					
7350	4822 130 41344	BC337-40	CADAC	TODE			
7251	4822 130 40937	BC548B	CAPAC	IIOns			
			-				
7352	4822 130 40937	BC548B					
				5322 121 42578	100nF	10%	100V
			2251	5322 121 42386	100nF	5%	63V
NTEGR	ATED CIRCUITS		2252	5322 121 42386	100nF	5%	63V
				4822 124 41995	6800µF		25V
				4822 124 40242	1μF	20%	63V
7212	4822 209 73356	AN7161N(FP)	2234	.ULL 127 TUCTE	ıμι	20 /0	00 v
		` '	0055	4000 400 00407	<u> </u>	4001	5011
/314	4822 209 73356	AN7161N(FP)		4822 122 33197	1nF	10%	50V
				4822 126 11585	22nF		50V
			2257	5322 121 42578	100nF	10%	100V
COILS				5322 121 42386	100nF	5%	63V
		· VA		5322 121 42386	100nF	5%	63V
5200	4822 157 62552	COIL 2 2uH	2260	A000 10A 00A10	2200	200/	161/
				4822 124 22412	2200μF	20%	16V
	4822 157 62552			4822 124 40201	1000μF	20%	16V
	4822 157 62552	•		4822 124 41525	100μF	20%	25V
5315	4822 157 62552	COIL 2,2µH	2265	4822 124 41994	3300μF	20%	16V
	4822 157 62552			4822 122 33197	1nF	10%	50V
-5.5		· ·- - ·- - · · ·	2200	.522 122 50157		10/0	JU ¥

TRAFO BOARD

	2267	4822 122 33197	100	100/	FOV
	2207	4022 122 33137	1115	20%	50 V
	2311	4822 124 40242 4822 124 40242 5322 121 42489	ιμr tu⊏	20%	63V
	2312	5222 124 40242	1μΓ 22nE	20 % 50/	1001
		5322 121 42489	33nE	5% 5%	100V 100V
	2310	3322 121 42409	SSHE	3%	100 V
	2317	4822 124 40242	1μF	20%	63V
	2318	4822 124 40242	1µF	20% 20%	63V
	2319	4822 124 40433	47μF	20%	25V
	2320	4822 124 40433	47μF	20%	25V
		4822 126 12795			
		4822 126 12795			
	2325	4822 124 40196	220μF	20%	16V
	2326	4822 124 40196	220μF	20%	16V
	2329	5322 124 41431 5322 124 41431	22μF	20%	25V
	2330	5322 124 41431	22μF	20%	25V
	2333	4822 124 40433	47μF	20%	25V
	2334	4822 124 40433	47μF	20%	25V
	2335	4822 124 40433 4822 124 40433 4822 124 40433	47μF	20%	25V
	2336	4822 124 40433	47μF	20%	25V
	2337	4822 121 42408	220nF	5%	63V
	2338	4822 121 42408	220nF	5%	63V
	2339	4822 121 42408	220nF	5%	63V
		4822 121 42408			63V
	2350	4822 124 41525	100μF	20%	25V
	2351	5322 121 42386	100nF	5%	63V
			=		
		5322 121 42386			
	2353	5322 121 42386	100nF	5%	63V
	2354	4822 124 40242	1μF	20%	63V
	2357	4822 124 40242 4822 124 40435 4822 121 51387	10μF	20%	50V
	2361	4822 121 51387	10nF	20%	16V
	2362	4822 121 51387	10nF	20%	16V
	2002		10111	LU /0	10 4
	HIP C	APACITORS			
•					

2355 4822 126 12519 330pF 10% 2356 4822 126 12519 330pF 10%

MISCE	LLANEOUS	
1250	4822 071 55002	FUSE T5A
1251	4822 071 56301	Fuse T 630mA/250V
1252	4822 071 56301	Fuse T 630mA/250V
1255	4822 265 31015	MAINS SOCKET
5250	4822 146 31256	TRANSFORMER /20, /22
5250	4822 146 31246	TRANSFORMER /25
COILS		
5251	4822 157 70003	COIL, MAINS FILTER

DOLBY BOARD

DIODES	3				RESIST	TORS			
6706	4822 130 30621	1N4148			3640	4822 116 52284	47k	5%	0,5V
	4822 130 30621	1N4148				4822 116 52243	1k5	5%	0,160
	4822 130 30621	1N4148				4822 116 52243	1k5	5%	0,16V
	4822 130 30621	1N4148				4822 116 52269	3k3	5%	0,5V
0703	4022 130 30021	1144140				4822 116 52269	3k3	5%	0,5V
TRANS	ISTORS				2645	4822 116 52289	5k6	5%	0,16V
		-				4822 116 52289	5k6	5%	0,16V
7044	1000 100 11100	DOE 400				4822 050 11002	1k	5%	0,10 v 0,2 v
	4822 130 44196	BC548C							
	4822 130 44196	BC548C	_			4822 050 11002	1k	5%	0,2
	4822 130 60588	DTC114E	_		3649	4822 116 52251	18k	5%	0,5\
	4822 130 60588	DTC114E							
7744	4822 130 60588	DTC114E	S			4822 116 52224	470R	5%	0,5
						4822 116 52257	22k	5%	0,5\
7745	4822 130 60588	DTC114E	S		3652	4822 116 52257	22k	5%	0,5\
7746	4822 130 60588	DTC114E	S		3653	4822 050 11002	1k	5%	0,2\
7750	4822 130 41344	BC337-40			3655	4822 116 52233	10k	5%	0,5\
7751	4822 130 42682	DTA144E9	S						
7752	4822 130 44196	BC548C			3656	4822 116 52233	10k	5%	0,5\
					3657	4822 116 52233	10k	5%	0,51
7752	4822 130 60588	DTC114E	s			4822 116 52233	10k	5%	0,5\
	4822 130 44196	BC548C	_			4822 116 52257	22k	5%	0,5\
	4822 130 41344	BC337-40				4822 116 52257	22k	5%	0,5\
					3000	4022 110 32237	221	J /6	0,51
	4822 130 42682	DTA144ES	_		0004	4000 440 F0044	151.	E0/	0.51
7764	4822 130 60588	DTC114E	S			4822 116 52244	15k	5%	0,5\
						4822 116 52244	15k	5%	0,5\
	4822 130 60588	DTC114E	S			4822 116 52289	5k6	5%	0,16\
7767	4822 130 44196	BC548C			3664	4822 116 52289	5k6	5%	0,16
7768	4822 130 44196	BC548C			3665	4822 116 52244	15k	5%	0,5V
7776	4822 130 60588	DTC114ES	S						
7781	4822 130 60588	DTC114ES	S		3666	4822 116 52289	5k6	5%	0,16
	•				3667	4822 100 11771	POTMET	ER 20k	LIN
7782	4822 130 60588	DTC114ES	s		3668	4822 100 11771	POTMET	ER 20k	LIN
	4822 130 60588	DTC114ES				4822 050 11002	1k	5%	0,2
	4822 130 60588	DTC114E				4822 050 11002	1k	5%	0,2
	4822 130 00388	BC558B	3		0072	4022 000 11002	***	0,0	0,21
	4822 130 44197	BC337-40			2672	4822 116 52257	22k	5%	0,5\
1191	4022 130 41344	DC337-40				4822 116 52257	22k	5%	0,5\
									0,25
						4822 051 10333	33k	2%	
NTEGF	RATED CIRCUITS					4822 051 10333	33k	2%	0,25
					36//	4822 116 52257	22k	5%	0,5
7635	4822 209 30498	HA12134A	4		3678	4822 050 11002	1k	5%	0,2
	4822 209 70288	UPC1313F			3679	4822 116 52251	18k	5%	0,5
	4822 209 70288	UPC1313				4822 116 52224	470R	5%	0,5\
	5322 209 14865	MC14066E				4822 116 52224	470R	5%	0,5
	5322 209 14865	MC14066				4822 116 52224	470R	5%	0,5\
					A=6-	4000 440 5005	4700	F0.	c
	4822 209 61667	UPC1330F				4822 116 52224	470R	5%	0,5\
7770	4822 209 31505	CXA1298	4P			4822 116 52231	820R	5%	0,5
						4822 116 52231	820R	5%	0,5
COILS					3703	4822 116 52265	270k	5%	0,5
					3704	4822 116 52265	270k	5%	0,50
5625	4822 242 73768	MPX-FILT	FR		3705	4822 116 52238	12k	5%	0,5
	4822 242 73768	MPX-FILT				4822 116 52238	12k	5%	0,5V
						4822 116 52195	47R	5%	
	4822 156 20811	COIL 36µł							0,57
	4822 156 20811	COIL 36µł		11.		4822 116 52195	47R	5%	0,50
5760	4822 157 70695	OSC. COI	L (100k	(HZ)	3/09	4822 116 52256	2k2	5%	0,16
RESIST	ORS				3710	4822 116 52256	2k2	5%	0,16V
'						4822 116 52269	3k3	5%	0,5
						4822 116 52269	3k3	5%	0,5V
3635	4822 116 52234	100k	5%	0,5W		4822 116 52224	470R	5%	0,5
	4822 116 52234	100k	5%	0,5 W		4822 116 52224	470R	5%	0,5
	4822 116 52285	470k	5%	0,5 W	3717	1022 110 02224	-77 UI L	J /6	U,U¥
	4822 116 52285	470k	5% 5%	0,5W					
	4822 116 52284	476k 47k	5%	0,5 W					

RESISTORS

3719	4822 116 52224	470R	5%	0,5W	2700	4000	0 116 E0050	1001	E0/	0.514/	
	4822 116 52224 4822 116 52224						2 116 52252			0,5W	
			5%	0,5W			2 116 52263		5%	0,5W	
	4822 116 52224		5%	0,5W			2 116 52284		5%	0,5W	
	4822 116 52224		5%	0,5W			2 116 52283			0,5W	
3722	4822 116 52224	470R	5%	0,5W	3798	4822	2 116 52238	12k	5%	0,5W	
3723	4822 116 52265	270k	5%	0,5W							
	4822 116 52265		5%	0,5W	CAPAC	HOR	19				
	4822 116 52238		5%	0,5 W	OAI AC	,,,,					
	4822 116 52238										
			5%	0,5W	2025	4000					
3/2/	4822 116 52195	47R	5%	0,5W			2 124 40242		20%	63V	
					2636	4822	2 124 40242	1μF	20%	63V	
3728	4822 116 52195	47R	5%	0,5W	2637	4822	2 122 33069	33pF	5%	50V	
3729	4822 116 52256	2k2	5%	0,16W	2638	4822	122 33069	33pF	5%	50V	
3730	4822 116 52256	2k2	5%	0,16W	2639	4822	124 40242	1μF	20%	63V	
3731	4822 116 52269	3k3	5%	0,5W							
	4822 116 52269		5%	0,5W	2640	4922	124 40242	1μF	20%	63V	
,, OL	4022 110 02200	ONO	370	0,5**				•			
700	4000 440 50004	470D	50/	0.5147			126 10329	•	5%	50V	
	4822 116 52224		5%	0,5W			126 10329	•	5%	50V	
	4822 116 52228	680R	5%	0,5W			122 10577		10%	16V	
3736	4822 050 11002	1k	5%	0,2W	2646	4822	122 10577	3,3nF	10%	16 V	
3737	4822 050 11002	1k	5%	0,2W							
3738	4822 116 52228	680R	5%	0,5W	2647	4822	124 40435	10μF	20%	50V	
			- 70	-,,			124 40435	10μF	20%	50V	
3740	4822 116 52303	8k2	5%	0,5W				•			
				•			124 40242	1μF	20%	63V	
	4822 116 52303	8k2	5%	0,5W			124 40196	•	20%	16V	
	4822 116 52231	820R	5%	0,5W	2651	4822	122 33519	470pF	10%	50V	
	4822 116 52231	820R	5%	0,5W							
3747	4822 116 52224	470R	5%	0,5W	2652	5322	124 41431	22μF	20%	25V	
					2653	4822	124 40248	10μF	20%	63V	
3751	4822 116 52233	10k	5%	0,5W			124 40242	1μF	20%	63V	
	4822 116 52257	22k	5%	0,5W			124 40242	1μF	20%	63V	
	4822 116 52263	2k7	5%	0,5W			124 40242	•			
					2657	4022	124 40248	10μF	20%	63V	
	4822 116 52207	1k2	5%	0,5W					_		
1/55	4822 116 52233	10k	5%	0,5W			124 40248	•	20%	63V	
					2659	4822	124 40248	10µF	20%	63V	
756	4822 100 11771	POTMET	ER 20k	LIN	2660	4822	124 40248	10μF	20%	63V	
757	4822 052 10478	4R7	5%	NFR ·			121 42408	220nF	5%	63V	
	4822 116 52191	33R	5%	0,5W			121 42408	220nF	5%	63V	
	4822 116 52296	6k8	5%	0,5W	2004		1_100		J /6	00 ¥	
	4822 116 52176	10R	5%	0,5 W	ORCE	4000	100 00510	470-5	100/	EOV.	
., 01	1022 110 321/0	IVI	J /0	0,544			122 33519		10%	50V	
700	4000 440 70470	400	F0/	0.514			122 33519		10%	50V	
	4822 116 52176	10R	5%	0,5W			122 33519	470pF	10%	50V	
	5322 100 11539						122 33519	470pF	10%	50V	
	5322 100 11539	POTMET	ER 100k	CLIN	2669	4822	122 33519	470pF	10%	50V	
765	4822 116 52283	4k7	5%	0,5W				-			
766	4822 116 52256	2k2	5%	0,16W	2670	4822	122 33519	470pF	10%	50V	
		_					122 10458	82pF	10%	50V	
767	4822 116 52257	22k	5%	0,5W			122 10458	82pF	10%	50V	
	4822 116 52233	10k	5%	•				•			
				0,5W			122 33519		10%	50V	
	4822 116 52224	470R	5%	0,5W	26/6	4822	122 33519	470pF	10%	50V	
	4822 116 52224	470R	5%	0,5W							
771	4822 050 11002	1k	5%	0,2W			124 41643		20%	16V	
					2699	4822	126 10178	820pF	10%	50V	
772	4822 050 11002	1k	5%	0,2W			126 10178	820pF	10%	50V	
	4822 050 11002	1k	5%	0,2W			126 12332	100pF	5%	50V	
	4822 051 10333	33k	2%	0,2 VV			126 12332	•			
	4822 116 52238			•	2/02	+022	120 12332	100pF	5%	50V	
		12k	5% 5%	0,5W	070-	4000	404 446 :-	400 =	0621		
0/1	4822 116 52283	4k7	5%	0,5W			124 41643	100μF	20%	16V	
					2704	4822	124 41643	100μF	20%	16V	
777	4822 116 52175	100R	5%	0,5W			121 41815	10nF	10%	100V	
778	4822 116 52175	100R	5%	0,5W			121 41815	10nF	10%	100V	
	4822 116 52251	18k	5%	0,5W			126 11585	22nF		50V	
	4822 116 52251	18k	5%	0,5 W	2101		0000			JU ¥	
					0700	4000	106 11505	00-5		E01/	
	4822 050 11002	1k	5%	0,2W			126 11585	22nF		50V	
		. = -					124 40242	1μF	20%	63V	
781		15k	5%	0,5W			124 40242	1μF	20%	63V	
781 783	4822 116 52244	IJK			0=10			' -			
781 783	4822 116 52244 4822 116 52289	5k6	5%	0,16W	2/12	4822	122 33519	470pF	10%	50V	
781 783 784		5k6	5%				122 33519 124 40196	•			
781 783 784 785	4822 116 52289			0,16W 0,5W 0,5W			122 33519 124 40196		10% 20%	50V 16V	

CAPACITORS				
2719 4822 126 10178	820pF	10%	50V	_
2720 4822 126 10178	820pF	10%	50V	
2721 4822 126 12332	100pF	5%	50V	
2722 4822 126 12332	100pF	5%	50V	
	•			

	19			10178	820pF		50 V
27	20	4822	126	10178	820pF	10%	50V
27	21	4822	126	12332	100pF	5%	50V
	22	4822	126	12332	100pF		50V
	23			41643	100μF		16V
21	23	4022	124	41043	τουμι	20 /6	104
27	24	4822	124	41643	100μF	20%	16V
27	25	4822	121	41815	10nF	10%	100V
	26		121	41815	10nF	10%	100V
	27			11585	22nF	1070	50V
27	28	4822	126	11585	22nF		50V
27	29	4822	124	40242	1μF	20%	63V
27	30	4822	124	40242	1μF	20%	63V
	32			33519	470pF		50V
				40196	220μF		
	33						
27	39	4822	126	10781	470pF	5%	50V
27	40	4822	122	33519	470pF	10%	50V
27	41	4822	124	41643	100µF	20%	16V
	47			41643	100μF		16V
				40433	47μF		
	52						
27	55	4822	124	40242	1μF	20%	63V
27	57	4822	124	40433	47μF	20%	25V
27	59	4822	126	11714	4,7nF	20%	
27	60			51387	10nF	20%	16V
	62			40239	0,47μF		
	-			10329			
21	63	4822	120	10329	68pF	370	50 V
27	64	4822	126	10329	68pF		
27	65	4822	121	51093	6,8nF	5%	250V
27	68	4822	124	41643	100μF	20%	16V
	69			33519	470pF		50V
	70			40196	220μF		
21	70	4022	124	40130	ΖΖΟμι	2076	101
27	71	4822	126	11714	4,7nF	20%	
27	72	4822	126	11714	4,7nF	20%	
27	73	4822	126	11714	4,7nF	20%	
				40246	4,7μF		63V
	75			40433	47μF		
21	73	4022	124	40400	47μ1	2078	25 •
				40242	1μF		63V
27	77	4822	124	40242	1μF	20%	63V
27	78	4822	124	40242	1μF	20%	63V
27	79	4822	126	10178	820pF	10%	50V
					820pF		
07	01	4000	126	11585	22nF		50V
				11585			50V
				40242	1μF	20%	
27	84	4822	124	40242	1μF	20%	63V
				11592		10%	50V
27	86	4822	126	11592	1nF	10%	50V
					4,7μF		
				40246	4,7μF	20%	
				51387		20%	
27	92	4822	121	51387		20%	16V

CAPACITORS

50V 50V 63V 50V

50V

50V 50V

50V 50V

50V 50V 50V

63V 50V

50V 63V 50V 50V 50V

50V 50V 50V

NP0 50V

63V

63V 63V 50V 50V 63V

MISCELLANEOUS		COILS			
	SOCKET COAX IEC 75R F-CONNECT. COAX 75R	5123 4822 157 60517 5140 4822 158 60511 5142 4822 157 70302	AM-IF F	ILTER 4	50kHz
		5143 4822 242 70665			
DIODES		5144 4822 242 70665	CER. FI	LTER 10	0,7MHZ
NODES		5145 4822 242 81362	CER. DI	SCRIMI	NATOR
		5150 4822 157 50975		109	
6105 4822 130 83075	HN1V02H	5170 4822 242 72976	CER.RE	:SONA I	OR 7,2MHz
6109 4822 130 82833					
6122 4822 130 30621		RESISTORS			
6121 4822 130 30621 6123 4822 130 30621	1N4148 1N4148				
6123 4622 130 30621	1114140				
6124 4822 130 82833	1SV228	3119 4822 116 52224	470R	5%	0,5W
6140 4822 130 30621	1N4148	3120 4822 116 52289 3124 4822 116 52256	5k6 2k2	5% 5%	0,16W 0,16W
6154 4822 130 30621 6174 4822 130 34233		3132 4822 116 52283	2k2 4k7	5% 5%	0,16W 0,5W
0174 4022 130 34233	B2A79-B3V1	3141 4822 116 52215	220R	5%	0,1 6W
RANSISTORS		3148 4822 100 11163 3151 4822 116 52243	POTMET 1k5	ER 100l 5%	
		3156 4822 116 52243	10k	5% 5%	0,16W 0,5W
7102 5322 130 42136	BC848C(CHIP)	3162 4822 050 11002	1k	5%	0,2W
7104 5322 130 42136	BC848C(CHIP)	3163 4822 050 11002	1k	5%	0,2W
7105 4822 130 60093		3164 4822 116 52283	4k7	5%	0,5W
7120 4822 130 60163 7121 5322 130 42136	BC848C(CHIP)	3165 4822 116 52283	4k7	5%	0,5W
7121 3022 100 42100	200-200(O/III)	3170 4822 116 52283	4k7	5%	0,5W
7123 5322 130 42136	BC848C(CHIP)	3173 4822 116 52244	15k	5%	0,5W
7128 5322 130 42136	• •	3174 4822 116 52233	10k	5%	0,5W
7152 5322 130 41983 7156 4822 130 41344		3177 4822 116 52233	10k	5%	0,5W
7157 4822 130 41344	BC337-40	3181 4822 116 52234	100k	5%	0,5W
		3189 4822 116 52249	1k8	5%	0,16W
7169 5322 130 42136		3190 4822 116 52249	1k8	5%	0,16W
7170 5322 130 42136 7171 5322 130 42136	,	3191 4822 116 52249	1k8	5%	0,16W
7174 5322 130 41983	BC858B(CHIP)	3192 4822 116 52249	1k8	5%	0,16W
7178 5322 130 41983		3193 4822 116 52224	470R	5%	0,5W
7170 5000 100 10100	D00400/01/IID)	3194 4822 050 24701	470R	5%	
7179 5322 130 42136	BC848C(CHIP)	3195 4822 050 24701 3197 4822 050 24701	470R 470R	5% 5%	
		0101 1022 000 2 1101	.,	0 70	
NTEGRATED CIRCUITS		3201 4822 116 52176	10R	5%	0,16W
		CHIP RESISTORS			
7140 4822 209 32011	TEA5712T/N1 (Radio-IC)				
	TEA5712T/N2 (Radio-IC)				
	HEF4069UBT (6xINVERTER)	3106 4822 051 20104	100k	5%	0,1W
	MM74HCU04M (6xINVERTER)	3107 4822 051 20222 3108 4822 051 20104	2k2 100k	5% 5%	0,1W 0,1W
1113 4022 209 31998	LC7218M SYNTHESIZER	3109 4822 051 20104	2k2	5% 5%	0,1W 0,1W
		3110 4822 051 20473	47k	5%	0,1W
OILS		A444 1000 001 001		5 61	0.4144
		3111 4822 051 20153 3112 4822 051 20223	15k 22k	5% 5%	0,1W 0,1W
		3112 4822 051 20223	22K 3M3	5% 5%	0,1W 0,1W
5105 4822 158 60641	Ferrite ant.,MW/LW	3121 4822 051 20104	100k	5%	0,1 W
5106 4822 158 60642		3122 4822 051 20471	470R	5%	0,1W
	RF COIL var. 1,5 TURNS	9409 4000 054 00000	001:	E0/	0.4147
	RF COIL var. 1,5 TURNS	3123 4822 051 20223 3125 4822 051 20472	22k 4k7	5% 5%	0,1W 0,1W
5122 4822 157 60517	COIL var. 110µH 8%	3128 4822 051 20472	2k2	5%	0,1W 0,1W
		3129 4822 051 20472 3142 4822 051 20222	4k7 2k2	5%	0,1W 0,1W

				_				
	471	F0/	0.4144	2122	4822 122 31746	1nF	5%	50V
3144 4822 051 20473	47k	5%	0,1W		4822 121 51387	10nF	20%	16V
3147 4822 051 20184	180k	5%	0,1W		4822 121 43705	390pF	1%	160V
3149 4822 051 20563	56k	5%	0,1W		4822 125 50355			
3154 4822 051 20333	33k	5%	0,1W		4822 122 33197	1nF	10%	50V
3155 4822 051 20333	33k	5%	0,1W	2134	4022 122 00107	,,,,,	1070	001
3157 4822 051 20273	27k	5%	0,1W		4822 121 70245	560pF	1%	160V
3158 4822 051 20189	18R	5%	0,1W	2141	4822 124 40244	2,2µF	20%	63V
3159 4822 051 20184	180k	5%	0,1W	2142	4822 124 40242	1μF	20%	63V
3160 4822 051 20823	82k	5%	0,1W	2150	4822 124 40435	10μF	20%	50V
3161 4822 051 20823	82k	5%	0,1W		4822 124 40435	10μF	20%	50V
		==.	0.414	2156	5322 126 10181	100nF		25V
3166 4822 051 20101	100R	5%	0,1W		5322 126 10181	100mF		25V
3167 4822 051 20008	CHIP JUN				4822 122 31746	1nF	5%	50V
3171 4822 051 20101	100R	5%	0,1W			1nF	5%	50V
3172 4822 051 20472	4k7	5%	0,1W		4822 122 31746			63V
3175 4822 051 20104	100k	5%	0,1W	2160	4822 124 40242	1μF	20%	63 V
3176 4822 051 20104	100k	5%	0,1W	2161	4822 124 40242	1μF	20%	63V
3178 4822 051 20332	3k3	5%	0,1W	2162	4822 124 40242	1μF	20%	63V
3179 4822 051 20273	27k	5%	0,1W	2172	4822 124 41631	1,5μF	20%	50V
•	33k	5%	0,1W	2173	4822 124 40433	47μF	20%	25V
3180 4822 051 20333					5322 126 10181	100nF		25V
3183 4822 051 20223	22k	5%	0,1W	2111	5022 725 10101			
3184 4822 051 20223	22k	5%	0,1W		4822 122 33197	1nF	10%	50V
3185 4822 051 20472	4k7	5%	0,1W		4822 122 33195	100pF	10%	50V
3186 4822 051 20183	18k	5%	0,1W	2184	4822 124 41584	100μF	20%	10V
3188 4822 051 10102	1k	2%	0,25W	2186	4822 122 31746	1nF	5%	50V
3200 4822 051 20223	22k	5%	0,1W					
	O. 11D 11.11	40E0 -	1000	CHID C	APACITORS			
3211 4822 051 10008	CHIP JUI			OHIFC	AFAOITONO			
3212 4822 051 10008	CHIP JUI							
3213 4822 051 10008	CHIP JUI			0110	E222 122 22650	33pF	5%	50V
3220 4822 051 20008	CHIP JUI				5322 122 32659		5%	50V
3222 4822 051 20008	CHIP JUI	MPER	0805		5322 122 32269			63V
					4822 122 33496	100nF	10%	50V
3223 4822 051 20008	CHIP JUI				5322 122 32531	100pF	5%	
3224 4822 051 20008	CHIP JUI	MPER (0805	2120	5322 122 32268	470pF	10%	50V
3226 4822 051 20008	CHIP JUI						For'	50)/
3228 4822 051 10008	CHIP JUI	MPER	1206		5322 122 32481		5%	50V
3229 4822 051 20008	CHIP JUI	MPER	0805		4822 122 33177		20%	50V
					5322 122 32658		5%	50V
3233 4822 051 20008	CHIP JUI	MPER	0805		5322 122 32658	22pF	5%	50V
3235 4822 051 10008	CHIP JUI	MPER	1206	2139	4822 122 32627	2,2nF	10%	50V
3237 4822 051 10008	CHIP JUI							
3238 4822 051 20008	CHIP JUI			2143	4822 122 33325	470nF	20%	50V
3240 4822 051 10008	CHIP JUI			2144	4822 122 33325	470nF	20%	50V
3240 4822 031 10000	Orm oo		1200		4822 122 33496		10%	63V
2211 1222 251 20222	CHIP JU	MDED	0905		5 5322 122 33063		10%	50V
3241 4822 051 20008					4822 122 33177		20%	50V
3242 4822 051 10008	CHIP JU			2177	4022 122 00177			
3243 4822 051 20008	CHIP JU			2152	4822 122 33496	100nF	10%	63V
3244 4822 051 20008	CHIP JU			· -			20%	50V
3245 4822 051 20008	CHIP JU	MPER	0805		4822 122 33177		20%	50V
					4822 122 33128			
3246 4822 051 10008	CHIP JU	MPER	1206		4822 122 33177		20%	50V
3247 4822 051 10008	CHIP JU			2155	4822 122 33128	15nF	20%	50V
3248 4822 051 20008	CHIP JU	MPER	0805					501
3249 4822 051 20153	15k	5%	0,1W	2158	3 4822 122 31768		5%	50V
3249 4822 051 20821	820R	5%	0,1W	2159	9 4822 122 31768	180pF	5%	50V
				2168	3 4822 122 33481	1,8nF	5%	NP0
				2169	5322 122 31863	330pF	5%	50V
CAPACITORS				2170	5322 126 10223	4,7nF	10%	63V
					I 5322 126 10223	4,7nF	10%	63V
0100 1000 100 00105	100-F	100/	50\/		1 5322 120 10223 1 5322 116 80853		5%	63V
2100 4822 122 33195	100pF	10%			5 5322 116 60633 5 5322 122 32531	•	5%	50V
2104 4822 122 33195	100pF	10%						50V 50V
2107 4822 122 31746	1nF	5%			5322 122 31946		5%	63V
2115 4822 125 60101	10pF \			218	1 4822 122 32139	12pF	5%	Ved
2122 4822 122 31746	1nF	5%	50V					
-122 TOLE 122 017 TO		- / (

63V 63V

63V

2183 4822 122 33496 100nF 10% 2185 4822 122 33496 100nF 10% 2193 4822 122 33496 100nF 10%

TUNER 92

MISCE	ELLANE	EOUS				
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		210 10492				
		267 10283	SOCKE	I COAX	CIEC /5H	
DIODE	:S 			-		
		130 34174				
		130 83075 130 30621		?H		
FRAN:	SISTOF	RS				
7101	4822	130 60163	2SC104	7		
		130 60068				
		130 60068				
		130 41982		•		
7108	4822	130 44196	BC548C			
		130 44196				
		130 41982	,			
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7115	4800	130 41024	BF245B			
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		130 41983				
		130 44196		. ,		
7120	4822	130 44 196	BC548C			
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7150	5322		BC338-4			
7150 7157	5322 5322	130 44779	BC338-4			
7150 7157 NTEG	5322 5322 RATED	130 44779 130 44779	BC338-4	.0		
7150 7157 NTEG 7103	5322 5322 RATED 4822 :	130 44779 130 44779 CIRCUITS	BC338-4	0		
7150 7157 NTEG 7103 7105	5322 5322 RATED 4822 :	130 44779 130 44779 CIRCUITS 209 31001	BC338-4 BC338-4 LA1851N	0		
7150 7157 NTEG 7103 7105	5322 5322 RATED 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178	BC338-4 BC338-4 LA1851N LC7218	0		
7150 7157 NTEG 7103 7105 COILS	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 CIRCUITS 209 31001	BC338-4 BC338-4 LA1851N LC7218	1),7MHz	
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7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105	5322 5322 RATED 4822 : 4822 : 4822 : 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC	TER 10	•	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105	5322 5322 RATED 4822 : 4822 : 4822 : 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC	TER 10	•	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106	5322 5322 RATED 4822 : 4822 : 4822 : 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC Q-DETEC BIRDY F	TER 10 DIL CION C	OIL	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106	5322 5322 RATED 4822 : 4822 : 4822 : 4822 : 4822 : 4822 : 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63802	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC Q-DETEC BIRDY F	TER 10 DIL CION CILTER	OIL 3-BAND	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5107 5108 5110	5322 5322 RATED 4822 : 4822 : 4822 : 4822 : 4822 : 4822 : 4822 : 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63904 157 63799 157 63799 157 63799 157 63912 242 71878	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM.	TER 10 DIL CION C ILTER IL MW 3 IL AM 3 FILTER	OIL 3-BAND -BAND 450kHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5107 5108 5110 5111	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63904 157 63912 242 71878 242 81248	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CERAM.	TER 10 DIL CION CI ILTER IL MW 3 IL AM 3 FILTER RES. 1	OIL 3-BAND -BAND 450kHz 9kHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5107 5108 5110 5111	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63904 157 63799 157 63799 157 63799 157 63912 242 71878	BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CERAM.	TER 10 DIL CION CI ILTER IL MW 3 IL AM 3 FILTER RES. 1	OIL 3-BAND -BAND 450kHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5107 5108 5110 5111 5112	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63904 157 63904 157 63912 242 71878 242 71878 242 81248 242 72976 242 81249	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CERAM. CER.RES CER. FIL	TER 10 DIL CION CI IL MW (IL AM 3 FILTER RES. 1:	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5117 5118 5111 5112	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63904 157 63912 242 71878 242 71878 242 72976	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CERAM. CER.RES	TER 10 DIL CION CI ILTER IL MW 3 IL AM 3 FILTER RES. 11 SONATO	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz	
7150 7157 NTEG 7103 7105 20ILS 5101 5103 5104 5105 5106 5107 5108 5110 5111 5112 5113 5114 5127	5322 5322 S322 RATED 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822: 4822:	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 30178 157 53192 242 81249 157 63904 157 63904 157 63912 242 71878 242 71878 242 81248 242 72976 242 81249 152 20699	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CERAM. CER.RES CER. FIL 560µH	TER 10 DIL CION CI ILTER IL MW 3 IL AM 3 FILTER RES. 11 SONATO	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5107 5108 5110 5111 5112 5113 5114 5127 ESIST	5322 5322 RATED 4822 : 4822 : 482 : 483 : 483 : 484 : 485 : 485 : 486 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 31001 209 30178 157 53192 242 81249 157 63904 157 63902 157 63912 242 71878 242 71878 242 81248 242 72976 242 81249 152 20699 158 60643	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CER.RES CER. FIL 560µH FERROC	TER 10 DIL CION CI ILTER IL MW 3 FILTER RES. 11 SONATO	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz ,7MHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5117 5118 5111 5112 5113 5114 5127 ESIST	5322 5322 RATED 4822 : 4822 : 482 : 483 : 483 : 484 : 485 : 486 : 486 : 486 : 486 : 486 : 486 : 487 : 487 : 487 : 488 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 31001 209 30178 157 53192 242 81249 157 63904 157 63904 157 63902 157 63912 242 71878 242 71878 242 72976 242 81249 152 20699 158 60643	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CER. RES CER. FIL 560µH FERROC	TER 10 DIL CION CI ILTER IL MW 3 FILTER RES. 11 TER 10 EEPTOF	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz ,7MHz	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5117 5118 5111 5112 5113 5114 5127 ESIST 3100 3108	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 31001 209 30178 157 53192 242 81249 157 63029 157 63904 157 63902 157 63912 242 71878 242 71878 242 81249 152 20699 158 60643	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CO Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CER.RES CER. FIL 560µH FERROC 150R 470R	TER 10 DIL CION CI ILTER IL MW 3 IIL AM 3 FILTER RES. 19 SONATO TER 10	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz ,7MHz 0,6W 0,5W	
7150 7157 NTEG 7103 7105 COILS 5101 5103 5104 5105 5106 5117 5118 5114 5127 ESIST 3100 3108 3113	5322 5322 RATED 4822 : 4822 :	130 44779 130 44779 130 44779 1 CIRCUITS 209 31001 209 31001 209 30178 157 53192 242 81249 157 63904 157 63904 157 63902 157 63912 242 71878 242 71878 242 72976 242 81249 152 20699 158 60643	BC338-4 BC338-4 BC338-4 LA1851N LC7218 0,22µH CER. FIL AM IF CC Q-DETEC BIRDY F ANT. CO OSC.CO CERAM. CER. RES CER. FIL 560µH FERROC	TER 10 DIL CION CI ILTER IL MW 3 FILTER RES. 11 TER 10 EEPTOF	OIL 3-BAND -BAND 450kHz 9kHz OR 7,2MHz ,7MHz	

RESIST	ORS				CHIP F	RESISTORS				
3125	4822 100 11213	22k	30%	POT.	3185	4822 051 20103	10k	5%	0,1W	
	4822 100 11319		trimpot.			4822 051 20103	10k	5%	0,1W	
	4822 050 15602	5k6	1%	0,4W		4822 051 20479	47R	5%	0,1W	
	4822 116 83922	150R	5%	1W		4822 051 20472	4k7	5%	0,1W	
	4822 050 15602	5k6	1%	0,4W		4822 051 20008				
3150	4822 050 25601	560R	1%	0,6W	3197	4822 051 20008	CHIP JUM	MPER 08	05	
	4822 050 24702	4k7	1%	0,6W	3198	4822 051 20103	10k	5%	0,1W	
	4822 050 22201	220R	2%	0,25W	3200	4822 051 20008	CHIP JUM	MPER 08	05	
3158	4822 050 24702	4k7	1%	0,6W	3201	4822 051 20103	10k	5%	0,1W	
	4822 050 22701	270R	1%	0,6W	3202	4822 051 20008	CHIP JUM	MPER 08	05	
3165	4822 050 21002	1k	1%	0,6W	3223	4822 051 20474	470k	5%	0,1W	
3166	4822 050 21002	1k	1%	0,6W	3230	4822 051 20223	22k	5%	0,1W	
3167	4822 050 21002	1k	1%	0,6W	3231	4822 051 20223	22k	5%	0,1W	
3183	4822 050 21003	10k	2%	0,25W		4822 051 10102	1k	2%	0,25W	
3186	4822 050 21003	10k	2%	0,25W	3236	4822 051 20008	CHIP JUM	IPER 08	05	
	4822 050 21002 5322 116 44005	1k PTC 256	1% 0R25%	0,6W	3240	4822 051 20472	4k7	5%	0,1W	
CHIP R	ESISTORS				CAPAC	CITORS				
					2102	4000 104 40400	47E	200/	25V	
0400	4000 054 00004	0001-	E0/	0.4147		4822 124 40433 4822 121 42408	47μF 220nF	20% 5%	25 V 63 V	
	4822 051 20224	220k 150k	5% 5%	0,1W 0,1W		4822 122 31385	22pF	5% 5%	50V	
	4822 051 20154 4822 051 20562	5k6	5% 5%	0,1W 0,1W		5322 124 41431	22μF	20%	25V	
	4822 051 20829	82R	5%	0,1W 0,1W		4822 124 40239	22μι 0,47μF	20%	63V	
	4822 051 20104	100k	5%	0,1W	2110	1022 121 10200	ο, μ.	2070		
						5322 121 42386	100nF	5%	63V	
	4822 051 20332	3k3	5%	0,1W		4822 121 41935	12nF	5%	250V	
	4822 051 20391	390R	5%	0,1W		4822 121 41935	12nF	5%	250V	
	4822 051 20478	4R7	5%	0,1W		4822 124 40244	2,2μF	20%	63V	
	4822 051 20331	330R	5%	0,1W	2120	4822 124 40244	2,2μF	20%	63V	
3121	4822 051 20272	2k7	5%	0,1W	0101	4822 124 40196	2205	20%	16V	
0400	4000 0E4 00EC0	EleC	Eo/	0.4147		4822 124 40196	220μF 4,7μF	20%	63V	
	4822 051 20562	5k6	5%	0,1W		4822 124 40246	4,7μF 4,7μF	20%	63V	
	4822 051 20223	22k	5% 5%	0,1W		4822 124 40240	4,7μΓ 1μF	20%	63V	
	4822 051 20103 4822 051 20123	10k 12k	2%	0,1W		4822 124 40435	10μF	20%	50V	
	4822 051 20123	5k6	5%	0,1W 0,1W	2131	4022 124 40433	τομι	20 /6	30 V	
3121	4022 031 20302	JAO	378	0,1**	2142	4822 125 60102	30pF VAR	NABLE		
3128	4822 051 20562	5k6	5%	0,1W		4822 121 42408	220nF	5%	63V	
	4822 051 20103	10k	5%	0,1W		4822 121 51263	510pF	1%	400V	
	4822 051 20183	18k	5%	0,1W		4822 121 70082	430pF	1%	400V	
	4822 051 20008					4822 124 40242	1μF	20%	63V	
	4822 051 10008						·			
						4822 124 40433	47μF	20%	25V	
	4822 051 20472	4k7	5%	0,1W		4822 124 41631	1,5μF	20%	50V	
	4822 051 20472	4k7	5%	0,1W		4822 122 10166	22nF	30%	16V	
	4822 051 20821	820R	5%	0,1W		4822 124 40433	47μF	20%	25V	
	4822 051 20331	330R	5%	0,1W	2193	4822 125 60102	30pF VAH	HABLE		
3145	4822 051 20271	270R	5%	0,1W	2194	4822 125 60101	10oF VAR	IIARI F		
2140	4000 0E1 00104	1006	5%	0,1W		4822 124 41643	100μF	20%	16V	
	4822 051 20104 4822 051 20472	100k 4k7	5% 5%	0,1W	2210	7022 127 4 1043	ιουμι	20 /0	100	
	4822 051 20472	4K7 10k	5% 5%	0,1W						
	4822 051 20103	270k	5% 5%	0,1W	CHIP	APACITORS				
	4822 051 20153	15k	5%	0,1W						
					0.101	5000 100 01000	470 F	400/	0011	
	4822 051 20472	4k7	5%	0,1W		5322 122 34099	470pF	10%	63V	
	4822 051 20104	100k	5%	0,1W		5322 122 32268	470pF	10%	50V	
	4822 051 20104	100k	5%	0,1W		5322 122 32965	18pF	5%	50V	
	4822 051 20103	10k	5%	0,1W		5322 122 32654	22nF	10%	63V	
3164	4822 051 20473	47k	5%	0,1W	2109	5322 122 32654	22nF	10%	63V	
3170	4822 051 20103	10k	5%	0,1W	2110	5322 122 32654	22nF	10%	63V	
	4822 051 20223	22k	5%	0,1W		5322 122 32654	22nF	10%	63V	
	4822 051 20472	4k7	5%	0,1W		5322 122 32661	56pF	5%	50V	
	4822 051 20223	22k	5%	0,1W		4822 122 33177	10nF	20%	50V	
	4822 051 20332	3k3	5%	0,1W		4822 122 31782	15nF	10%	50V	
	=									

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CHIP CAPACITORS		CD BOARD
2147 5322 122 32654 22n 2148 5322 122 32452 47p		MISCELLANEOUS
2149 4822 122 33177 10n		
2150 5322 122 32654 22n		1020 4822 071 51601 FUSE 160mA
2151 5322 122 34099 470p		1021 4822 071 51601 FUSE 160mA
		1250 4822 267 30933 SOCKET CHINCH
2153 5322 122 34099 470p	F 10% 63V	
2154 5322 122 32481 15p		DIODES
2155 5322 122 32965 18p	F 5% 50V	
2158 5322 126 10223 4,7nl		
2159 5322 126 10223 4,7nl	= 10% 63V	6103 4822 130 30621 1N4148
0404 4000 400 00007 000		6550 4822 130 31981 BZX79-C3V9
2161 4822 122 32927 220nl		6660 4822 130 34173 BZX79-C5V6
2195 5322 122 33861 120pl 2196 5322 122 32448 10pl		TRANSISTORS
2196 5322 122 32448 10pl 2215 5322 122 32268 470pl		THANSISTORS
2216 5322 122 32268 470pl		
22.0 COLE (22 CE200 47 Opt	1070 300	7040 4822 130 60887 BF840
2219 4822 122 32927 220ni	= 10% 63V	7041 5322 130 41982 BC848 (CHIP)
2221 5322 122 32268 470pf		7042 5322 130 41983 BC858B(CHIP)
2224 4822 122 31173 220pf		7043 5322 130 41982 BC848 (CHIP)
2225 4822 122 31173 220pF	10% 500V	7044 5322 130 41982 BC848 (CHIP)
		7140 5322 130 42012 BC858 (CHIP)
		7141 4822 130 61207 BC848 (CHIP)
		7360 4822 130 42804 BC817-25 (CHIP)
		7361 4822 130 42804 BC817-25 (CHIP)
		7362 5322 130 42012 BC858 (CHIP)
		7550 5322 130 42012 BC858 (CHIP)
		INTEGRATED CIRCUITS
		7000 4822 209 31064 TDA1301T/N1
		7060 4822 209 72587 TCA372DP2 7080 4822 209 72587 TCA372DP2
		7101 4822 209 32036 UM6264BM-10L, RAM
		7102 4822 209 30388 SAA7341GP
		7000 4000 000 00074 14/44/7407
		7300 4822 209 83274 NJM4560D
		7301 4822 209 83274 NJM4560D
		7500 4822 209 80891 MC7805CT 7660 4822 209 72587 TCA372DP2
		7700 4822 900 10318 MC68HC05C8/SERVO-S17
		COILS
		1002 4822 242 73557 CERAMIC RES. 8,46MHz
		1570 4822 242 81151 X-TAL 16,934MHz
		1700 4822 242 72527 CERAMIC RES. 4.0 MHz
		5250 4822 148 80281 COIL 100μH
		RESISTORS
		3000 4822 050 21003 10k 2% 0,25W
		3001 4822 050 21003 10k 2% 0,25W
		3002 4822 050 21003 10k 2% 0,25W
		3003 4822 050 21003 10k 2% 0,25W
		3004 4822 050 21003 10k 2% 0,25W
		3005 4822 050 21003 10k 2% 0,25W
		3007 4822 052 10338 3R3 NFR25
		3008 4822 052 10338 3R3 NFR25
		3008 4822 052 10338 3R3 NFR25 3014 4822 052 10478 4R7 5% NFR

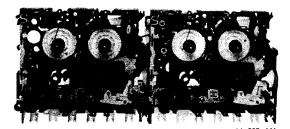
RESIST	ORS				CHIP I	RESISTORS			
		41.	40/	0.6144	3048	4822 051 20101	100R	5%	0,1W
	4822 050 21002	1k	1%	0,6W		4822 051 20434	430k	5%	0,1W
	4822 050 24301	430R	1%	0,6W		4822 051 20182	1k8	5%	0,1W
	4822 050 21204	120k	1%	0,6W		4822 051 20182	1k8	5%	0,1W
	4822 050 25603	56k	1%	0,6W		4822 051 20392	3k9	5%	0,1W
3058	4822 050 21002	1k	1%	0,6 W	3033	4022 031 20092	ONO	370	0,111
3062	4822 116 52244	15k	5%	0,5W		4822 051 20101	100R	5%	0,1W
	4822 050 21503	15k	1%	0,6W		4822 051 20124	120k	5%	0,1W
	4822 052 10229	22R	5%	0,33W	3060	4822 117 10036	7k5	1%	0,1W
	4822 052 10108	1R	5%	0,33W	3061	4822 051 20682	6k8	5%	0,1W
	4822 052 10108	1R	5%	0,33W	3063	4822 051 20103	10k	5%	0,1W
0070	4000 050 00000	6k8	1%	0,6W	3070	4822 051 20153	15k	5%	0,1W
	4822 050 26802	22R	5%	0,33W		4822 051 20103	10k	5%	0,1W
	4822 052 10229	15k	5%	0,5W		4822 051 20682	6k8	5%	0,1W
	4822 116 52244	10k	2%	0,25W		4822 051 20153	15k	5%	0,1W
	4822 050 21003 4822 050 24702	4k7	1%	0,6W		4822 051 20223	22k	5%	0,1W
0001	1022 000 2 11 02				0.4.04	1000 051 00000	001	E0/	0,1W
	4822 052 10108	1R	5%	0,33W		4822 051 20223	22k 1k	5% 2%	0,1 VV
	4822 052 10108	1R	5%	0,33W		4822 051 10102		2 % 5%	0,23 W
	4822 050 21003	10k	2%	0,25W		4822 051 20222	2k2		0,1W
	4822 052 10229	22R	5%	0,33W 0,5W	•	4822 051 20105 4822 051 20182	1M 1k8	5% 5%	0,1W
3087	4822 116 52244	15k	5%	0,5	3111	4022 001 20102		0,0	•
3100	4822 0 50 22202	2k2	1%	0,6W		4822 051 20182	1k8	5%	0,1W
	4822 052 10338	3R3		NFR25	3119	4822 051 10561	560R	2%	0,25 W
	4822 052 10338	3R3		NFR25	314	4822 051 20104	100k	5%	0,1W
	4822 052 10229	22R	5%	0,33W	314	4822 051 20223	22k	5%	0,1W
	4822 050 22205	2M2	1%	0,6W	3147	4822 051 20392	3k9	5%	0,1W
	1000 110 50001	4001	E0/	0,5W	314	3 4822 051 20473	47k	5%	0,1W
	4822 116 52234	100k	5% 1%	0,5 V V		4822 051 10561	560R	2%	0,25 W
	4822 050 24703	47k		0,8 W		4822 051 20621	620R	5%	0,1W
	4822 052 10229	22R	5%	0,35W 0,25W		4822 051 20104	100k	5%	0,1W
	4822 050 21003 4822 052 10229	10k 22R	2% 5%	0,23W		4822 051 20273	27k	5%	0,1W
					200	A000 0E1 00000	3k3	5%	0,1 W
	4822 052 10229	22R	5%	0,33W		4822 051 20332		2%	0,1 W
	4822 050 22203	22k	1%	0,6W		4822 051 20123	12k		0,1 W
	4822 050 21002	1k	1%	0,6W		4 4822 051 20123	12k 3k3	2% 5%	0,1 W
	4822 050 21002	1k	1%	0,6W		7 4822 051 20332	12k	2%	0,1 W
3501	4822 052 10108	1R	5%	0,33W	330	3 4822 051 20123	121	2 /0	0,1**
3502	4822 052 10108	1R	5%	0,33W		9 4822 051 20104	100k	5%	0,1W
	4822 116 52303	8k2	5%	0,5W	331	4822 051 20273	27k	5%	0,1W
3615	4822 052 10108	1R	5%	0,33W		1 4822 051 20123	12k	2%	0,1W
	4822 052 10108	1R	5%	0,33W		3 4822 051 20223	22k	5%	0,1W
3617	4822 052 10229	22R	5%	0,33W	332	4822 116 83933	15k	1%	0,1 W
2701	4822 052 10338	3R3		NFR25	332	1 4822 116 83933	15k	1%	0,1W
3/01	4022 032 10000	0110		***********	332	2 4822 116 83933	15k	1%	0,1W
CHID	RESISTORS				332	3 4822 116 83933	15k	1%	0,1W
OI III I	ILOIOT OTTO				332	5 4822 116 83933	15k	1%	0,1W
-	**				332	6 4822 116 83933	15k	1%	0,1W
	4000 054 00400	101-	E0/	0,1W	333	7 4822 116 83933	15k	1%	0,1W
	4822 051 20103	10k	5% 5%	0,1W		8 4822 116 83933	15k	1%	0,1W
	4822 051 20105	1M	5% 5%	0,1W		0 4822 051 10102	1k	2%	0,25W
	4822 051 20103	10k	5% 5%	0,1W		1 4822 051 10102	1k	2%	0,25W
	4822 051 20103	10k 1k	5% 2%	0,1 W 0,25W		0 4822 051 20561	560R	5%	0,1W
3012	4822 051 10102	1 K	2%	U,Z3VV			55511	0,0	
3013	4822 051 10102	1k	2%	0,25W		1 4822 051 10102	1k	2%	0,25W
	4822 051 10102	1k	2%	0,25W		2 4822 051 20223	22k	5%	0,1W
	4822 051 10101	100R	5%	0,125W		3 4822 051 10102	1k	2%	0,25W
	4822 051 20393	39k	5%	0,1W		0 4822 051 20123	12k	2%	0,1W
3042	4822 051 20334	330k	5%	0,1 W	361	2 4822 051 20123	12k	2%	0,1W
3043	4822 051 20303	30k	5%	0,1W	361	3 4822 051 20123	12k	2%	0,1W
	4822 051 10102	1k	2%	0,25W		4 4822 051 20123	12k	2%	0,1W
	4822 051 20101	100R	5%	0,1W		2 4822 051 20103	10k	5%	0,1W
	4822 051 10102	1k	2%	0,25W	366	3 4822 051 20103	10k	5%	0,1W
	4822 051 20434	430k	5%	0,1W	366	4 4822 051 20103	10k	5%	0,1W
30-17	.522 55. 25.51			•					

CHIP I	RESISTORS				CAPACITORS
3665	4822 051 20561	560R	5%	0,1W	2304 4822 124 40272 33µF 20% 16V
3700	4822 051 20224	220k	5%	0,1W	2305 4822 124 40246 4,7μF 20% 63V
3706	4822 051 20103	10k	5%	0,1W	2311 4822 124 40246 4,7μF 20% 63V
	4822 051 20103	10k	5%	0,1W	2500 4822 124 80148 2200µF 20% 16V
	4822 051 20103	10k	5%	0,1W	2502 4822 124 41853 1000μF 20% 16V
	4822 051 20103	10k	5%	0,1W	2702 4822 124 40272 33μF 20% 16V
	4822 051 20332	3k3	5%	0,1 W	· ·
	4822 051 20103	10k	5%	0,1 W	CHIP CAPACITORS
	4822 051 20103	10k	5%	0,1W	
3715	4822 051 20332	3k3	5%	0,1W	2000 5222 122 21205 1 5-5 100/ 001/
3716	4822 051 20103	10k	5%	0,1W	2000 5322 122 31865 1,5nF 10% 63V 2001 5322 116 80853 560pF 5% 63V
	4822 051 20103	10k	5%	0,1 W	
	4822 051 20103	10k	5%	0,1 W	
	4822 051 20103	10k	5%	0,1W	
	4822 051 20103	10k	5%	0,1 W	2005 4822 122 31173 220pF 10% 500V
3721	4822 051 20103	10k	5%	0,1W	2006 4822 122 31173 220pF 10% 500V 2007 4822 122 31173 220pF 10% 500V
	4822 051 10102	1k	2%	0,1 V V	
	4822 051 10102	1k	2%	0,25 W	2008 4822 122 31173 220pF 10% 500V
	4822 051 10102	1K 1k	2% 2%	0,25W 0,25W	2009 4822 122 33496 100nF 10% 63V
	4822 0 51 10102	CHIP JU			2011 4822 122 33496 100nF 10% 63V
4004	4000.054.40000				2016 4822 122 33496 100nF 10% 63V
	4822 051 10008	CHIP JU			2018 4822 122 33496 100nF 10% 63V
	4822 051 10008	CHIP JU			2019 4822 122 33809 22nF 20% 50V
	4822 051 10008	CHIP JU			2040 5322 122 32654 22nF 10% 63V
	4822 0 51 10008 4822 0 51 10008	CHIP JU			2041 4822 126 10326 180pF 5%
					2043 5322 122 31863 330pF 5% 50V
	4822 0 51 10008	CHIP JU			2044 4822 126 10326 180pF 5%
	4822 051 10008	CHIP JU			2045 5322 122 32452 47pF 5% 50V
	4822 0 51 10008	CHIP JU	IMPER 1	206	2046 5322 122 32452 47pF 5% 50V
	4822 0 51 10008 4822 0 51 10008	CHIP JU			2047 5322 122 32531 100pF 5% 50V
		o oo	ב	200	2048 5322 122 32965 18pF 5% 50V
	4822 0 51 10008	CHIP JU	MPER 1	206	2049 4822 126 10326 180pF 5%
	4822 0 51 10008	CHIP JU	MPER 1	206	2050 4822 126 10326 180pF 5%
	4822 0 51 10008	CHIP JU			2051 5322 122 31863 330pF 5% 50V
	4822 051 10008 4822 051 10008	CHIP JU			2060 4822 122 33496 100n F 10% 63V
7701	4022 031 10000	OTHI JO	WIFERI	200	2061 4822 122 3349 6 100n F 10% 63V
					2064 4822 122 33342 33nF 10% 63V
CAPAC	ITORS				2065 4822 122 33496 100nF 10% 63V
					2066 4822 122 33175 2,2nF 20% 50V
					2070 4822 122 32627 2,2nF 10% 50V
2010	5322 124 21643	22μF	20%	40V	
	4822 124 40272	33μF	20%	16V	2071 4822 122 33496 100nF 10% 63V
	5322 124 21643	22μF	20%	40V	2072 4822 126 10326 180pF 5%
	5322 124 21643	22μF	20%	40V	2080 4822 122 33496 100nF 10% 63V
2042	5322 124 21643	22μF	20%	40V	2082 4822 122 33496 100nF 10% 63V
2052	5322 124 21643	22μF	20%	40V	2084 4822 126 10326 180pF 5%
	4822 124 40272	22μ1 33μF	20%	16V	2085 4822 122 33496 100nF 10% 63V
	4822 124 40272	33μF	20%	16V	
	5322 124 21643	33μF 22μF	20%	40V	2086 5322 126 10465 3,9nF 10% 63V
	5322 124 21643	22μF	20%	40V 40V	2101 5322 122 32452 47pF 5% 50V 2102 4822 122 33175 2,2nF 20% 50V
		ΖΖμι	2076	40 V	2102 4822 122 33175
	4822 124 40849	330μF	20%	16V	
	5322 121 42661	330nF	5%	63V	2106 4822 122 33496 100nF 10% 63V
	4822 124 41584	100μF	20%	10V	2108 4822 122 33809 22nF 20% 50V
	4822 124 40242	1μF	20%	63V	2110 5322 122 32659 33pF 5% 50V
2:11	5322 121 42386	100nF	5%	63V	2112 4822 122 33496 100nF 10% 63V 2114 5322 122 32452 47pF 5% 50V
	4822 124 40242	1μF	20%	63V	·
	AUTO 104 AIEGA	100μF	20%	10V	2115 5322 122 32452 47pF 5% 50V
2119	4822 124 41584				0447 5000 400 10000 1
2119 - 2122 -	4822 124 40849	330μF	20%	16V	2117 5322 126 10223 4,7nF 10% 63V
2119 · 2122 · 2301 ·	4822 124 40849 4822 124 40272	33μF	20%	16V	2118 5322 126 10223 4,7nF 10% 63V
2119 · 2122 · 2301 ·	4822 124 40849	•			

CHIP C	APACITORS				SET PARTS	
2125	4822 122 33496 5322 126 10223 4822 122 33496	100nF 4,7nF 100nF	10% 10% 10%	63V 63V 63V	4822 130 83092	LED (Volume pot)
2141 2253	4822 122 32542 4822 122 32183	47nF 56nF	10% 10%	63V 50V		
2303 2306	5322 116 80853 4822 122 33216 4822 122 33496	560pF 270pF 100nF	5% 5% 10%	63V 50V 63V	ACCESSORIES	
2310	4822 122 33216 5322 116 80853	270pF 560pF	5% 5%	50V 63V	4822 218 10513 4822 445 10362	IR REMOTE CONTROL LOUDSPEAKER BOX
2313 2501	4822 122 33219 4822 122 33219 4822 122 33496 4822 122 33496	1,8nF 1,8nF 100nF 100nF	10% 10% 10% 10%	50V 50V 63V 63V	4822 321 10831 4822 321 10918	MAINS CORD /20, /22 MAINS CORD /25
2504	4822 122 33496 4822 122 33175	100nF 2,2nF	10%	63V 50V		
2611 2612	4822 122 33496 4822 122 33496 4822 122 33496 4822 122 33809	100nF 100nF 100nF 22nF	10% 10% 10% 20%	63V 63V 63V 50V		
50						

2704 4822 122 33175 2,2nF 20% 50V

Tape transport RDN12



For details and exploded view see Service Manual of tape transport RN/RR, RDN/RDR (general documentation)



GB MAINTENANCE

It is recommended to clean the recorder after approx. 500 hours of operation.

To be cleaned with alcohol or spirit

- Erase head
- Recording/playback head
- Capstan
- Pressure roller

(F) ENTRETIEN

L'appareil devra être nettoyé après env. 500 heures de marche aux points les plus importants.

Nettoyer les éléments suivants à l'alcool ou à l'alcool à brûler:

- Tête effacement
- Tête enregistrement/reproduction
- Cabestan

- Galet presseur

NL ONDERHOUD

Aanbevolen wordt het apparaat na ca. 500 bedrijfsuren schoon te maken

Schoonmaken met alcohol of spiritus:

- Wiskop
- Opneem-/weergeefkop
- Toonas
- Drukrol

D WARTUNG

Es empfiehlt sich, das Gerät nach ca. 500 Betriebsstunden zu reinigen

Reinigen mit Alkohol oder Spiritus:

- Löschkopf
- Aufnahme/Wiedergabe-Kopf
- Tonachse
- Andruckrolle

1 MANUTENZIONE

E consigliabile pulire l'apparecchio dopo circa 500 ore di funzionamento ai punti principali.

Pulire con alcool

- Testina di cancellazione
- Testina di registrazione/riproduzione
- Capstan
- Rullo preminastro

"Pour votre securite, ces pocument doivent être utilises par des specialistes agrees, seus habintes à repavotre appareil en panne"

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SPECIAL FEATURES

(GB) CONTINUOUS PLAY

Definition: "Play" starts on deck A (play back deck). After tape end on deck A, deck B (REC/PB – deck) will be going on with "Play" till tape end. Then both decks will be in "Stop" – mode due to full auto shut off. Operating sequence:

- 1) start with "Play" on deck A
- 2) switch "Pause" on deck B
- 3) switch "Play" on deck B

After tape end on deck A auto stop – mechanism is working. The locked "play" – button on deck A and the "pause" – button on deck B will be released. "Play" – mode on deck B will now be active. After tape end on deck B full auto shut off will be activated.

SYNCHRO START

"COPY" from deck A to deck B

Operating sequence:

- 1) switch "Pause" on deck B
- 2) switch "REC"(one touch) on deck B
- 3) switch "Play" on deck A

In that moment when the "play" – button on deck A will be depressed the "pause" – button on deck B will be released. Now "REC" – mode on deck B will be active. Both decks will be working.

If one of the cassettes reaches tape end full auto shut off will be activated and COPY is finished.

(NL)ONONDERBROKEN WEERGEVEN

Omschrijving: Het weergeven begint op deck A (weergavedeck). Nadat op deck A het einde van de band is bereikt, gaat het weergeven door op deck B (opname/weergave-deck). Op dat moment worden beide decks geheel automatisch in de stand "Stop" geschakeld. Bedieningsvolgorde:

- 1) druk op toets "Play" op deck A
- 2) druk op toets "Pause" op deck B
- 3) druk op toets "Play" op deck B

Nadat het einde van de band op deck A is bereikt, treedt het autostop-mechanisme in werking. De vergrendelde toets "Play" op deck A en de toets "Pause" op deck B worden dan vrijgegeven. De stand "Play" op deck B is nu geactiveerd. Nadat het einde van de band op deck B is bereikt, wordt de volledig automatische uitschakeling geactiveerd.

SYNCHROON STARTEN

"KOPIEREN" van deck A naar deck B Bedieningsvolgorde:

- 1) druk op toets "Pause" op deck B
- 2) druk (een keer) op toets "REC" op deck B
- 3) druk op toets "Play" op deck A

Op het moment dat de toets "Play" op deck A wordt ingedrukt, wordt de toets "Pause" op deck B vrijgegeven. De stand "REC" op deck B is nu geactiveerd. Beide decks zijn in werking.

Indien op een van de cassettes het einde van de band wordt bereikt, wordt de volledig automatische uitschakeling geactiveerd en het kopiëren beëindigd.

F LECTURE EN CONTINU

Définition: La lecture ("**play**") démarre sur la platine A (platine de lecture). A l'arrivée en fin de bande sur la platine A, la platine B (platine d'enregistrement/lecture) poursuivra la lecture ("**play**") jusqu'à la fin de la bande. Ensuite, les deux platines seront en mode arrêt ("**stop**") grâce à l'arrêt total automatique.

Ordre de fonctionnement :

- 1) mettez en marche avec "Play" sur la platine A
- 2) appuyez sur "Pause" sur la platine B
- 3) appuyez sur "Play" sur la platine B

Après l'arrivée en fin de bande sur la platine A, le mécanisme d'arrêt automatique entre en fonctionnement. Les touches verrouillées "play" sur la platine A et "pause" sur la platine B sont alors débloquées. Le mode lecture ("play") sur la platine B est à présent actif. Après l'arrivée en fin de bande sur la platine B, l'arrêt total automatique sera activé. Lorsque la touche de "sélection de mode" est en position 2 (inversée), il est alors possible d'écouter trois faces de deux cassettes en continu.

DEPART SYNCHRONISE

Pour la COPIE de la platine A vers la platine B Ordre de fonctionnement :

- 1) appuyez sur "Pause" sur la platine B
- 2) appuyez sur "REC" (enregistrement à une touche) sur la platine B

3) appuyez sur "Play" sur la platine A

Au moment où la touche "play" (lecture) sur la platine A sera enfoncée, la touche "pause" sur la platine B sera dégagée. Le mode "REC" (enregistrement) sur la platine B est à présent actif. Les deux platines fonctionnent. Si l'une des cassettes arrive en fin de bande, l'arrêt total automatique sera activé et la COPIE terminée.

D CONTINUOUS PLAY

Definition: "Play" beginnt auf Laufwerk A (Wiedergabe – Laufwerk). Am Bandende von Laufwerk A setzt Laufwerk B (Aufn./Wg – Laufwerk) mit "Play" fort und läuft bis Bandende. Danach sind beide Laufwerke abgeschaltet. Bedienungsablauf:

- 1) "Play" Taste auf Laufwerk A drücken
- 2) "Pause" Taste auf Laufwerk B drücken
- 3) "Play" Taste auf Laufwerk B drücken

Am Bandende von Laufwerk A arbeitet der Auto stop – Mechanismus. Die "Play" – Taste von Laufwerk A und die "Pause" – Taste von Laufwerk B werden gelöst. Auf Laufwerk B ist nun die "Play" – Funktion eingeschaltet. Am Bandende von Laufwerk B schaltet die automatische Endabschaltung ab.

SYNCHRO START

"Kopieren" von Laufwerk A auf Laufwerk B. Bedienungsablauf:

- 1) "Pause" Taste von Laufwerk B drücken
- 2) "REC"- Taste (one touch) von Laufwerk B drücken
- 3) "Play" Taste von Laufwerk A drücken

In dem Moment wo die "Play" – Taste von Laufwerk A gedrückt wird, wird die "Pause" – Taste von Laufwerk B gelöst. "Aufnahme" – Modus wird dadurch auf Laufwerk B aktiver und beide Laufwerke arbeiten.

Erreicht eine der beiden Kassetten das Bandende, schaltet die automatische Endabschaltung ab und der Kopierbetrieb wird beendet.

I RIPRODUZIONE CONTINUA

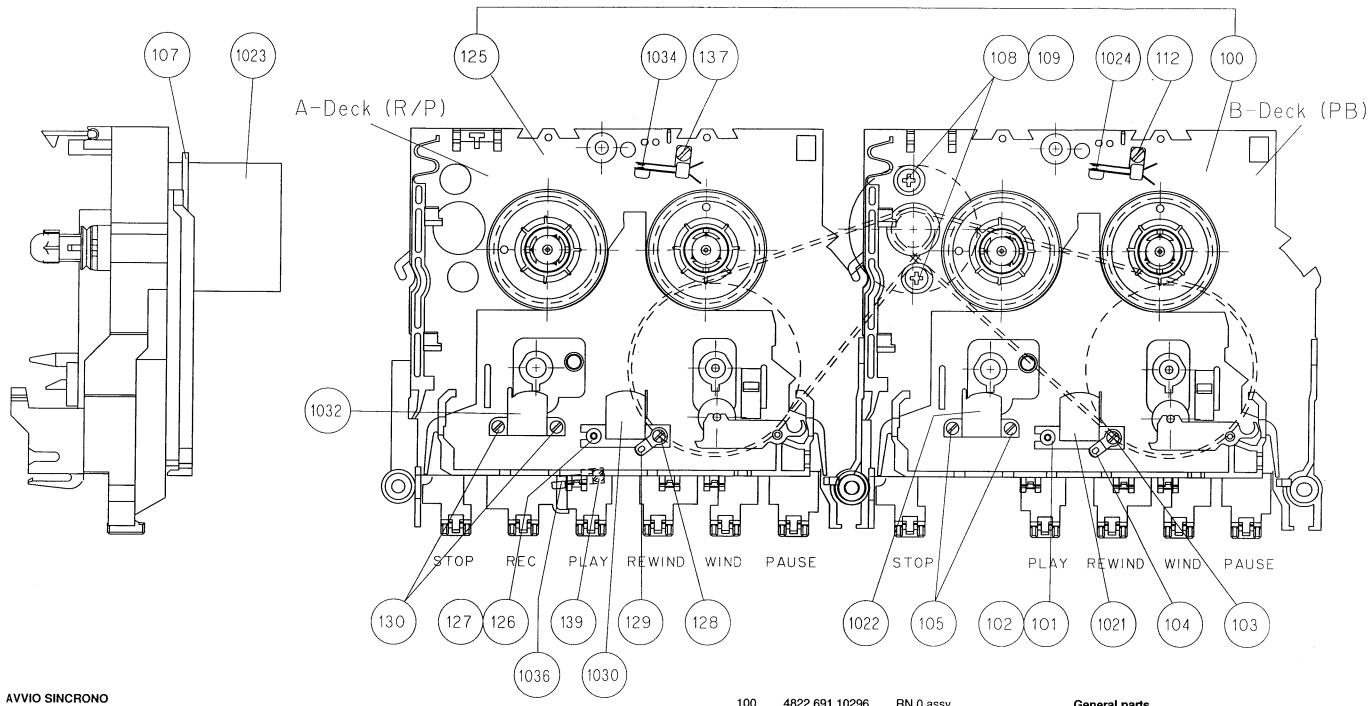
automaticamente.

Funzionamento: la riproduzione inizia con la cassetta nel riproduttore A. Alla fine del nastro della cassetta nel riproduttore A, la riproduzione viene continuata con la cassetta nel registratore/riproduttore B. In tale momento, ambedue gli apparecchi vengono commutati automaticamente nel modo di arresto.

Ordine di comando:

- 1) premere il tasto "Play" sul riproduttore A
- 2) premere il tasto "Pause" sul registratore/riproduttore B
- 3) premere il tasto "Play" sul registratore/riproduttore B Alla fine del nastro della cassetta nel riproduttore A, viene attivato il meccanismo di arresto automatico dello stesso. Viene rilasciato il tasto "Play" sul riproduttore A ed il tasto "Pause" sul registratore/riproduttore B. Viene avviata la riproduzione della cassetta nel registratore/riproduttore B. Quando è stata raggiunta la fine del nastro della cassetta nel registratore/riproduttore B, ambedue gli apparecchi vengono arrestati

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COPIATURA della cassetta nel riproduttore A sulla cassetta nel registratore/riproduttore B.

Ordine di comando:

- 1) premere il tasto "PAUSE" sul registratore/riproduttore B.
- 2) premere (una volta) il tasto "REC" sul registratore/riproduttore B.
- 3) premere il tasto "PLAY" sul riproduttore A.

Premendo il tasto "PLAY" sul riproduttore A verrà rilasciato il tasto "PAUSE" sul registratore/riproduttore B e quest'ultimo predisposto per la registratione. La cassetta nel riproduttore A viene copiata sulla cassetta nel registratore/riproduttore B. Quando viene raggiunta la fine del nastro diuna delle cassette, ambedue gli apparecchi vengono arrestati automaticamente.

100	4822 691 10296	RN 0 assy
101	4822 492 51473	spring azimuth
107	4822 529 10254	damper,motor
108	4822 502 11866	screw,motor
125	4822 691 10296	RN 0 assy
126	4822 492 51473	spring,azimuth
1021	4822 249 10397	head,Rec/Pb
1022	4822 404 10685	head,dummy
1023	4822 361 21637	motor, MSI-5U2LWDF
1024	4822 271 30598	switch indication play
1030	4822 249 10397	head,Rec/Pb
1032	4822 249 20072	head,erase
1034	4822 271 30598	switch indication play
1036	4822 278 90624	switch record

Only those parts of which a service code number is stated are service parts.

General parts

7/67	4822 520 10718 bearing plate
38	4822 520 40134 ball, bearing
40	4822 402 10037 lever, pinch roller right
41/76	4822 528 70646 pinch roller
43	4822 404 10853 slide, key lock
58	4822 358 30929 drive belt RN0 S (long)
98	4822 358 30928 drive belt RN0 D (short)
402	4822 528 20676 take-up clutch assy

(pos. number refer to exploded view in General Documentation 4822 725 23763)